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From:

Gadd, Paul S

Sent:

Friday, April 23, 2021 7:02 AM

To:

Brooks, Renee L; Campbell, Gloria; Schofield, LaMont C

Cc:

Mastaler, Patrick P; Thomas, Richard A; Hofstad, Shannon L; Adels, Keasha K

Subject:

RE: ACTION: Review/Approval of March 2021 Monthly Contract & Project Performance

Report

Approved for public release by HMIS Information Security.

Paul Gadd, PMP Hanford Site Information Protection Officer Classification Analyst, Information Security Safeguards & Security



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Approved by HMIS Communications (quicker to approve when I've already scanned through a few times previously). 🕲

Have a great weekend!

Reneé Brooks

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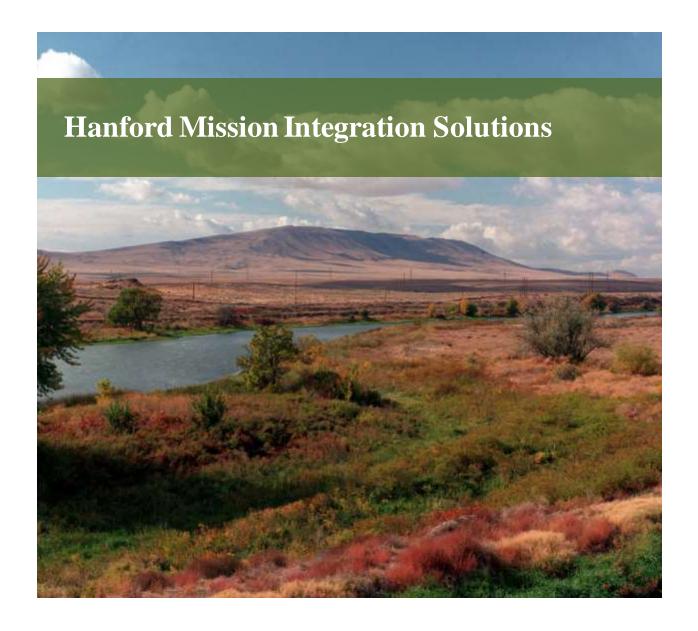
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Subject: ACTION: Review/Approval of March 2021 Monthly Contract & Project Performance Report

Renee & LaMont,

Below is the SharePoint link which contains the *March 2021 Monthly Contract & Project Performance Report* (CD0161/CD0162) for your review/approval.

Mar21 Monthly Contract & Project Performance Report (CD0161/0162)



Monthly Contract Performance Report
March 2021

R. E. Wilkinson President & General Manager

U.S. Department of Energy Contract No. 89303320DEM000031

> Approved for Public Release; Further Dissemination Unlimited

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Monthly Contract & Project Performance Report March 2021

Date Published May 2021

Prepared for the U.S. Department of Energy Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy under Contract 89303320DEM000031



P.O. Box 943 Richland, Washington 99352

APPROVED
By Janis Aardal at 3:47 pm, Apr 26, 2021

Release Approval

Date



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Contents

1.0	EXECUTIVE SUMMARY	1
2.0	KEY ACCOMPLISHMENTS	1
3.0	MAJOR ISSUES	3
4.0	HMIS SAFETY PERFORMANCE	4
5.0	EARNED VALUE MANAGEMENT	6
6.0	FUNDS ANALYSIS	7
7.0	PERTINENT BUSINESS INFORMATION	9
8.0	BASELINE CHANGE REQUESTS	9
8.1	Undistributed Budget Activity	10
8.2	Management Reserve Activity	11
9.0	RISK MANAGEMENT	11
10.0	PROGRAM CONDITION STATUS	11
11.0	GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)	14
12.0	DOE ACTIONS/DECISIONS	15
Sectio	n A	16
1.0	PROGRAM SERVICES AND SUPPORT SUMMARY	17
2.0	MAJOR ISSUES	40
3.0	PROGRAM RISK ASSESSMENT	41
3.1	HMIS I&SS Mission Key Risks	41
3.2	HMIS I&IS Mission Key Risks	44
3.3	HMIS MA Mission Key Risks	46
3.4	HMIS SES Mission Key Risks	47
3.5	HMIS IMS Mission Key Risks	49
3.6	HMIS ET&P Mission Key Risks	51
4.0	DOE ACTIONS/DECISIONS	52
Sectio	n B	53
1.0	RELIABILITY PROJECTS EXECUTIVE SUMMARY	54
2.0	SAFETY PERFORMANCE	54
3.0	KEY ACCOMPLISHMENTS	54
4.0	EARNED VALUE MANAGEMENT	55
5.0	BASELINE CHANGE REQUESTS	56



6.0	FUNI	DS ANALYSIS	57
7.0	MAJ	OR ISSUES	58
8.0	DOE	ACTIONS/DECISIONS	58
9.0	GOV	ERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)	58
10.0	RELI	ABILITY PROJECTS	59
10	.1 L-8	339, 12 inch Potable Water Loop-line	59
	10.1.1	Key Accomplishments	59
	10.1.2	90-Day Outlook	59
	10.1.3	Risks/Issues/Opportunities	59
	10.1.4	Project Risk Assessment	60
	10.1.5	Key Milestones	60
	10.1.6	Baseline Performance	61
10	.2 L-8	350, Replace 200W 1.1M-gallon PW Tank	61
	10.2.1	Key Accomplishments	62
	10.2.2	90-Day Outlook	62
	10.2.3	Risks/Issues/Opportunities	62
	10.2.4	Project Risk Assessment	62
	10.2.5	Key Milestones	63
	10.2.6	Baseline Performance	63
10	.3 L-8	397, Central Plateau Water Treatment Facility	64
	10.3.1	Key Accomplishments	64
	10.3.2	90-Day Outlook	65
	10.3.3	Risks/Issues/Opportunities	65
	10.3.4	Project Risk Assessment	65
	10.3.5	Key Milestones	67
	10.3.6	Baseline Performance	67
10	.4 L-7	781, 181D Vertical Turbine Pumps	67
	10.4.1	Key Accomplishments	68
	10.4.2	90-Day Outlook	68
	10.4.3	Risks/Issues/Opportunities	69
	10.4.4	Project Risk Assessment	69
	10.4.5	Key Milestones	69
	10.4.6	Baseline Performance	69



10.5 l	L-826, 181B Vertical Turbine Pumps	70
10.5.	.1 Key Accomplishments	70
10.5.	.2 90-Day Outlook	70
10.5.	.3 Risks/Issues/Opportunities	70
10.5.	.4 Project Risk Assessment	71
10.5.	.5 Key Milestones	71
10.5.	.6 Baseline Performance	71
10.6 I	L-849, Replace 200E 1.1M-gallon PW Tank	71
10.6.	.1 Key Accomplishments	72
10.6.	.2 90-Day Outlook	72
10.6.	.3 Risks/Issues/Opportunities	72
10.6.	.4 Project Risk Assessment	72
10.6.	.5 Key Milestones	73
10.6.	.6 Baseline Performance	73
10.7 I	L-894, Raw Water Cross Connect Isolation 200E/W	73
10.7.	.1 Key Accomplishments	74
10.7.	.2 90-Day Outlook	74
10.7.	.3 Risks/Issues/Opportunities	74
10.7.	.4 Project Risk Assessment	74
10.7.	.5 Key Milestones	75
10.7.	.6 Baseline Performance	75
10.8 I	L-895, Fire Protection Infrastructure for PRW	75
10.8.	.1 Key Accomplishments	76
10.8.	.2 90-Day Outlook	76
10.8.	.3 Risks/Issues/Opportunities	76
10.8.	.4 Project Risk Assessment	77
10.8.	.5 Key Milestones	78
10.8.	.6 Baseline Performance	78
10.9 I	L-838, Water Feeds to 622R, 6608 & 200W Lagoons	78
10.9.	.1 Key Accomplishments	79
10.9.	.2 90-Day Outlook	79
10.9.	.3 Risks/Issues/Opportunities	79
10.9.	.4 Project Risk Assessment	79



10.9.5	Key Milestones	80
10.9.6	Baseline Performance	80
10.10 L	2-853, 200E Sewer Flow Equalization Facility	80
10.10.1	Key Accomplishments	81
10.10.2	90-Day Outlook	81
10.10.3	Risks/Issues/Opportunities	81
10.10.4	Project Risk Assessment	81
10.10.5	Key Milestones	81
10.10.6	Baseline Performance	82
10.11 I	L-854, 200E Sewer Consolidations	82
10.11.1	Key Accomplishments	83
10.11.2	90-Day Outlook	83
10.11.3	Risks/Issues/Opportunities	83
10.11.4	Project Risk Assessment	83
10.11.5	Key Milestones	83
10.11.6	Baseline Performance	83
10.12 L	L-801, Upgrade SCADA	84
10.12.1	Key Accomplishments	85
10.12.2	90-Day Outlook	85
10.12.3	Risks/Issues/Opportunities	85
10.12.4	Project Risk Assessment	85
10.12.5	Key Milestones	85
10.12.6	Baseline Performance	85
10.13 L	-791, RFL Transfer Trip Upgrades	86
10.13.1	Key Accomplishments	86
10.13.2	90-Day Outlook	86
10.13.3	Risks/Issues/Opportunities	87
10.13.4	Project Risk Assessment	87
10.13.5	Key Milestones	87
10.13.6	Baseline Performance	87
10.14 L	z-707, Advanced Electrical Metering	87
10.14.1	Key Accomplishments	88
10.14.2	90-Day Outlook	88



10.14.3	Risks/Issues/Opportunities	88
10.14.4	Project Risk Assessment	88
10.14.5	Key Milestones	89
10.14.6	Baseline Performance	89
10.15 L-	905, FARS & RFARS Replacement & Upgrade	90
10.15.1	Key Accomplishments	90
10.15.2	90-Day Outlook	90
10.15.3	Risks/Issues/Opportunities	90
10.15.4	Project Risk Assessment	91
10.15.5	Key Milestones	91
10.15.6	Baseline Performance	91
10.16 L-	911, Route 4S Lighting in 300 Area	91
10.16.1	Key Accomplishments	92
10.16.2	90-Day Outlook	92
10.16.3	Risks/Issues/Opportunities	92
10.16.4	Project Risk Assessment	92
10.16.5	Key Milestones	93
10.16.6	Baseline Performance	93
10.17 L-	898, 100 Area Mission Critical Distribution Feeders Replacement	93
10.17.1	Key Accomplishments	94
10.17.2	90-Day Outlook	94
10.17.3	Risks/Issues/Opportunities	94
10.17.4	Project Risk Assessment	94
10.17.5	Key Milestones	94
10.17.6	Baseline Performance	95
10.18 L-	612, 230kV Transmission System Reconditioning & Sustainability	95
10.18.1	Key Accomplishments	96
10.18.2	90-Day Outlook	96
10.18.3	Risks/Issues/Opportunities	96
10.18.4	Project Risk Assessment	96
10.18.5	Key Milestones	96
10.18.6	Baseline Performance	97
10.19 L-	861, Single-Circuit Distribution Pole Replace	97



10.19.1	Key Accomplishments	97
10.19.2	90-Day Outlook	98
10.19.3	Risks/Issues/Opportunities	98
10.19.4	Project Risk Assessment	98
10.19.5	Key Milestones	99
10.19.6	Baseline Performance	99
10.20 L	-789, Priority T&D System Wood PP Test & Replace	99
10.20.1	Key Accomplishments	100
10.20.2	90-Day Outlook	100
10.20.3	Risks/Issues/Opportunities	100
10.20.4	Project Risk Assessment	100
10.20.5	Key Milestones	101
10.20.6	Baseline Performance	101
10.21 L	-720, Outdoor Lighting Reconfiguration & Replacement	101
10.21.1	Key Accomplishments	102
10.21.2	90-Day Outlook	102
10.21.3	Risks/Issues/Opportunities	102
10.21.4	Project Risk Assessment	102
10.21.5	Key Milestones	103
10.21.6	Baseline Performance	103
10.22 L	-534, Overlay Interior 200 East Roads	103
10.22.1	Key Accomplishments	104
10.22.2	90-Day Outlook	104
10.22.3	Risks/Issues/Opportunities	104
10.22.4	Project Risk Assessment	104
10.22.5	Key Milestones	105
10.22.6	Baseline Performance	105
10.23 L	-603, Chip Seal Route 3N (Route 11A to Route 3)	105
10.23.1	Key Accomplishments	106
10.23.2	90-Day Outlook	106
10.23.3	Risks/Issues/Opportunities	106
10.23.4	Project Risk Assessment	106
10.23.5	Key Milestones	107



10.23.6	Baseline Performance	107
10.24 L-	883, Chip Seal Route 10, SR-240 to WYE Barricade	107
10.24.1	Key Accomplishments	108
10.24.2	90-Day Outlook	108
10.24.3	Risks/Issues/Opportunities	108
10.24.4	Project Risk Assessment	108
10.24.5	Key Milestones	109
10.24.6	Baseline Performance	109
10.25 L-	888, 400 Area Fire Station	109
10.25.1	Key Accomplishments	110
10.25.2	90-Day Outlook	110
10.25.3	Risks/Issues/Opportunities	110
10.25.4	Project Risk Assessment	110
10.25.5	Key Milestones	111
10.25.6	Baseline Performance	111
10.26 L-	907, Fleet Complex Site Development	112
10.26.1	Key Accomplishments	112
10.26.2	90-Day Outlook	112
10.26.3	Risks/Issues/Opportunities	112
10.26.4	Project Risk Assessment	113
10.26.5	Key Milestones	113
10.26.6	Baseline Performance	113
10.27 L-	934, MSC Office Space Gap Reduction - 200E	114
10.27.1	Key Accomplishments	114
10.27.2	90-Day Outlook	115
10.27.3	Risks/Issues/Opportunities	115
10.27.4	Project Risk Assessment	115
10.27.5	Key Milestones	115
10.27.6	Baseline Performance	115
10.28 L-	933, Install Mobile Office Trailers - 200E	116
10.28.1	Key Accomplishments	116
10.28.2	90-Day Outlook	116
10.28.3	Risks/Issues/Opportunities	117



10.28.4	Project Risk Assessment	117
10.28.5	Key Milestones	117
10.28.6	Baseline Performance	117
10.29 L-	796, Key Facilities Roof Replacements	118
10.29.1	Key Accomplishments	118
10.29.2	90-Day Outlook	118
10.29.3	Risks/Issues/Opportunities	119
10.29.4	Project Risk Assessment	119
10.29.5	Key Milestones	119
10.29.6	Baseline Performance	119
10.30 L-	921, Telecom Hut at Met Tower	120
10.30.1	Key Accomplishments	120
10.30.2	90-Day Outlook	120
10.30.3	Risks/Issues/Opportunities	121
10.30.4	Project Risk Assessment	121
10.30.5	Key Milestones	121
10.30.6	Baseline Performance	121
10.31 L-	919, Emergency Radio Upgrade	121
10.31.1	Key Accomplishments	122
10.31.2	90-Day Outlook	122
10.31.3	Risks/Issues/Opportunities	122
10.31.4	Project Risk Assessment	122
10.31.5	Key Milestones	123
10.31.6	Baseline Performance	123
10.32 L-	819, High Capacity Fiber Optic (300 Area)	123
10.32.1	Key Accomplishments	124
10.32.2	90-Day Outlook	124
10.32.3	Risks/Issues/Opportunities	124
10.32.4	Project Risk Assessment	124
10.32.5	Key Milestones	125
10.32.6	Baseline Performance	125
10.33 L-	937, Gable East Footprint Reduction (Phase 1)	125
10.33.1	Key Accomplishments	126



	10.33.2	90-Day Outlook	126
	10.33.3	Risks/Issues/Opportunities	126
	10.33.4	Project Risk Assessment	126
	10.33.5	Key Milestones	127
	10.33.6	Baseline Performance	127
App	endix A		128
1.0	FORMA	AT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE	129
2.0	FORMA	AT 3, DD FORM 2734/3, BASELINE	130
3.0	FORMA	AT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS	131
App	endix B		135
1.0	FORMA	AT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE	136
2.0	FORMA	AT 3, DD FORM 2734/3, BASELINE	137
3.0	FORM/	AT 5. DD FORM 2734/5. EXPLANATIONS AND PROBLEM ANALYSIS	. 138



1.0 EXECUTIVE SUMMARY

Hanford Mission Integration Solutions (HMIS) continued to provide direct support to the U.S. Department of Energy (DOE) and its contractors with cost-effective infrastructure and Site services that are integral and necessary to accomplish the environmental cleanup mission through open and proactive communication, collaboration, and cooperation between Hanford Site customers (DOE Offices and Other Hanford Contractors [OHC]). Unless otherwise noted, all data provided is through March 21, 2021.

Marking the one-year COVID-19 pandemic anniversary, HMIS personnel continued to safely manage and execute contractual work expectations. In the month of March, HMIS continues to maintain a telework posture for a vast majority of the workforce, and continues to provide DOE with pandemic-related requests (i.e., COVID-19 Site Remobilization Tracking Tool).

Our Ethics team processed more than 1,900 employee Conflict of Interest disclosures. Teams supported the successful rail shipment of critical equipment to Energy Northwest to meet their milestone. Several teams also collaborated to complete the installation and testing of new fire protection systems at three site locations, replacing aging infrastructure. Staff at HAMMER implemented an assistive technology for hearing-impaired students to improve their overall training experience. Crane & Rigging Services worked closely with WRPS to assist with projects on the Tank-Side Cesium Removal system. Personnel with the Hanford Fire Department received wildland fire refresher training in preparation for the 2021 wildland fire season. Workforce Solutions staff participated in several presentations and trainings aimed at assisting job seekers, as well as virtual job fairs.

2.0 KEY ACCOMPLISHMENTS

- HMIS Procurement held their first Subcontractor Quarterly on March 30, 2021. Approximately 30 subcontractors attended with a total of 55 attendees present on the call. During the call, HMIS provided a recap of the information provided in the initial subcontractor quarterly that was held in February 2021. HMIS provided information to the subcontractors as to what some of the HMESC requirements flowed down entail and what the subcontractors need to do to comply. In addition, HMIS provided an overview of the subcontracting goals, where we are to date, as well as a list of subcontracting opportunities that will be released in the next 90-120 days. HMIS coordinated and facilitated several meetings with the OHC safety and health professionals to review the DOE Hanford Workplace Safety Plan. The Hanford-specific plan was developed in response to DOE's Agency Plan and will require changes to Hanford's COVID safety protocols. The safety and health professionals met to coordinate and discuss necessary changes to company policies, procedures, and management directives to ensure consistent site-wide implementation should the new COVID safety protocols be implemented.
- The HMIS Performance Oversight group completed an effectiveness review of the software quality assurance program rebuild. The review determined the action taken to build a compliant software quality assurance program had been effective; however, some opportunities for improvement were identified related to procedure clarifications and training



- of individuals in the various roles described in HMIS-PRO-IS-309, *Controlled Software Management*.
- HMIS Security and Hanford Patrol personnel successfully completed two Force-on-Force exercises. These exercises are performed to verify the effectiveness of the Protective Force and the ability to protect Hanford Site strategic assets. The exercises were conducted with no injuries and while adhering to all safety and social distancing requirements.
- HMIS hosted an architecture review of the Washington River Protection Service
 (WRPS), TankFarm Local Area Network (TFLAN) Industrial Control Network. Using
 industry powerhouse Dragos, the team performed an integrated workshop where Dragos
 assessed the technical and administrative elements of their network to assess cybersecurity
 health and determine areas for improvement.
- HMIS delivered 34 Contract Data Requirements Lists (CDRLs) to DOE RL in the month of March either on or before the due date.
- Processed more than 1900 Conflict of Interest (COI) disclosures for HMIS employees after
 the February "HMIS Conflict of Interest Kick-off" and a March "COI 101" communication
 which educated employees on why it is important to complete these forms. Stemming from
 this focus, the E&C group fielded many questions and provided a presentation on COIs at a
 mid-level ZAC meeting.
- Effectively collaborated with site contractors to address the large bow wave in training that was forecasted this summer. This bow wave was created due to the HAMMER COVID-19 shutdown and large number of core training classes conducted upon restart. Training coordinators pulled students back into March, April, and May to level out training due dates.
- Procurement has completed qualification of personnel, who were previously qualified as a
 Buyer's Technical Representative (BTR) under the MSA BTR Training program as well as
 new individuals identified by their organization. The completion of the qualification course
 has resulted in a total of 108 individuals who have been qualified as a BTR under the new
 BTR training program.
- The HAMMER implemented an assistive technology for hearing-impaired students. The application transcribes in real-time on an iPad to improve the training experience for students with impaired hearing.
- Operation Support Services worked with Energy Northwest (ENW) and Burlington Northern Santa Fe Railway (BNSF) to coordinate the rail shipment of critical equipment to ENW. On March 25, 2021, with support from the HMIS Roads and Grounds crews, the shipment was safely and successfully transported across the rail, meeting the ENW milestone. Another shipment is planned for July 2021. (photo below)





- Project L-905 completed the installation of new fire protection systems at 506BA, MO-413, and 2751E in March. Crews from the Fire Safety Maintenance (FSM) and Hanford Fire Department (HFD) teams provided field support during construction acceptance testing and operational testing of the units. All three units are anticipated to be online in early April.
- HMIS Crane & Rigging Services provided a qualified Designated Lead and signal person to
 install and remove Interchange carriers (IXCs) into the Avantec Tank-Side Cesium Removal
 (TSCR) unit with a specific forklift and jib attachment designed to lift place and remove
 IXCs and filter banks under a WRPS Special Lift procedure(s), during Operational
 Acceptance Testing (OAT) for the TSCR unit located outside of AP Farm. TSCR Operations
 supports the Direct-Feed Low-Activity Waste One Hanford mission. (photo below)



3.0 MAJOR ISSUES

Program Services and Support: Refer to Section A of this report for Program Services and Support specific major issues.

Reliability Projects: Refer to Section B of this report for project-specific major issues.



4.0 HMIS SAFETY PERFORMANCE

HMIS continues to focus on integrating and implementing safety programs in all program and project areas. In March, we experienced two Recordable Injuries, one of which resulted in Days Away, and there were eight first aids.

HMIS communicates frequently with our team through weekly Safety Starts and periodic safety bulletins. In March, weekly Safety Starts included: Ladder Safety, Daylight Saving Time, Poison/Poisoning Awareness and Spring Weather Awareness. The first HMIS wide President's Zero Accident Council meeting is scheduled for April 15.



Figure 1. Total Recordable Case Rate (TRC)



Monitor the Total Recordable Case (TRC) rate for HMIS employees and subcontractors (Note: Does not include independent subcontractors). The TRC is measured in accordance with OSHA guidelines for calculating and reporting. The rate is calculated by multiplying the number of Recordable cases by 200,000 and dividing by the total number of work hours.

March hours are estimated with 1,845 employees x 180 hours (4 weeks x 40 hours = 160 hours plus 20 hours for the half week = 180 hours per employee) = 332,100 total worker hours. Hours will be corrected when the software system upgrade is completed.



Figure 2. Days Away, Restricted, Transferred (DART)



Monitor the DART Case (TRC) rate for HMIS employees and subcontractors (Note: Does not include independent subcontractors). The DART is measured in accordance with OSHA guidelines for calculating and reporting. The rate is calculated by multiplying the number of DART cases by 200,000 and dividing by the total number of work hours.

March hours are estimated with 1845 employees x 180 hours (4 weeks x 40 hours = 160 hours plus 20 hours for the half week = 180 hours per employee) = 332,100 total worker hours. Hours will be corrected when the software system upgrade is completed.

5.0 EARNED VALUE MANAGEMENT

Table 1. HMIS Schedule and Cost Performance

		CURRENT PERIO D				CUMULATIVE TO DATE					AT COMPLETION		
	ACTUAL						ACTUAL						
		ED COST	COST	VARIA			ED COST	COST	VARIA				
CLIN Data for March	BCWS	BCWP	ACWP	SCHEDULE	COST	BCWS	BCWP	ACWP	SCHEDULE	COST	BAC	EAC	VARIANCE
0001 - Contract Transition	\$0	\$0	\$5,552	\$0	(\$5,552)	\$6,405	\$6,405	\$5,656	\$0	\$749	\$6,405	\$5,656	\$749
0003 - Legacy Benefit Plans & Legacy Workers' Comp	\$3,468	\$3,468	\$2,665	\$0	\$803	\$6,693	\$6,693	\$4,827	\$0	\$1,867	\$448,037	\$441,863	\$6,174
0004 - Infrastructure & Site Services	\$27,308	\$24,711	\$22,733	(\$2,598)	\$1,978	\$51,325	\$47,656	\$45,586	(\$3,670)	\$2,070	\$2,592,817	\$2,621,014	(\$28,197)
0005 - DOE Small Business Procure Pre-Award Support	\$19	\$19	\$0	\$0	\$19	\$19	\$19	\$0	\$0	\$19	\$2,419	\$2,409	\$10
0007 - Infrastructure Reliability Projects	\$1,526	\$1,313	\$1,573	(\$213)	(\$260)	\$2,458	\$2,867	\$2,943	\$409	(\$77)	\$359,856	\$359,918	(\$62)
0008 - DOE Small Biz Pro Post-Award Supp & Other DDWS	\$471	\$471	\$435	\$0	\$36	\$910	\$910	\$778	\$0	\$132	\$210,280	\$212,012	(\$1,732)
Undistributed Budget (UB)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$182,483	\$182,483	\$0
Management Reserve (MR)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Grand Total	\$32,792	\$29,982	\$32,957	(\$2,810)	(\$2,975)	\$67,811	\$64,550	\$59,790	(\$3,261)	\$4,760	\$3,802,296	\$3,825,355	(\$23,059)

Note: \$ in thousands

Performance Summary

The HMIS contract went operational on January 25, 2021.

Cost Variance Analysis: The CM unfavorable Cost Variance (CV) of (\$2,975K) is primarily due to Contract Transition as the cost was transferred in the March accounting period but plan in February creating a current month unfavorable variance.

Schedule Variance Analysis: The CM unfavorable Schedule Variance (SV) of (\$2,810K) is primarily in 4001.04.12 General Performance Requirements due to delay in equipment procurements, 4001.07.01 Water Systems due to Project L-781 181D Vertical Turbine Pumps, and 4001.07.03 Electrical Systems Project L-789, Priority T&D System Wood PP Test & Replace.

Variance at Completion: The unfavorable VAC is primarily due to HMIS material differences (MDs) that were identified during the due diligence process. HMIS submitted Contract Transition Deliverable CTD0004, "Listing of Material Differences and Pre-Existing Conditions" to RL on January 22, 2021. Also contributing to the unfavorable VAC are scope pending future BCRs (~\$7M).



6.0 FUNDS ANALYSIS

Table 2. HMIS Fiscal Year 2021 Funds vs. Fiscal Year Spend Plan

	FY 2021 IIP Performance to Date										
	Status through March FY 2021 (\$000)										
CLIN	Fund Source	IIP FYTD Perf	FYTD ACWP	Spending Variance	* Funds Received	Remaining Available Funds	** RL Expected Funding Prelim CBAG Rev 2	Total Outlook	HMIS Uncosted Balance	Carryover / Hold Backs	Unencum Balance
CLIN 4	SWS and RL-0201 Fee	31,731.0	29,276.5	2,454.5	74,000.0	44,723.5	165,029.4	163,063.9	1,965.5	1,965.5	-
CLIN 4	RL-0020 (SES, IM, DOE Serv, Fee)	11,921.7	12,077.4	(155.7)	47,055.0	34,977.6	75,727.7	62,541.6	13,186.1	13,186.1	-
CLIN 4	RL-0020 (RP)	24.0	103.3	(79.3)	163.5	60.2	2,034.0	1,946.0	88.0	88.0	-
CLIN 4	RL-0201 (RP)	5,594.6	1,605.6	3,989.0	22,387.0	20,781.4	51,772.7	26,630.0	25,142.7	25,142.7	-
CLIN 4	RL-0201 (HAMMER)	1,774.1	1,270.2	503.9	4,000.0	2,729.8	8,664.7	8,664.7	-		-
CLIN 4	RL-0201 (COVID, Inventory, DOE Serv)	391.4	453.1	(61.7)	6,610.0	6,156.9	7,064.0	7,064.0	-		-
CLIN 4	ORP-14, 60, PD - ORP Services		7.9	(7.9)	227.2	219.3	357.0	357.0	-		-
CLIN 5	RL-0201 (Small Business, Fee)			-	90.0	90.0	139.0	139.0	-		-
CLIN 5	RL-0201 (Fee)						11.0	11.0	-		-
CLIN 6	RL-0201 (Fee)			-		-	3,829.0	3,829.0	-		-
CLIN 7	RL-0020 (RP)	344.2	176.8	167.4	400.0	223.2	491.3	389.6	101.7	101.7	-
CLIN 7	RL-0201 (RP, Fee, MR)	2,681.4	2,766.7	(85.3)	4,978.8	2,212.1	24,135.5	18,125.5	6,010.0	6,010.0	-
				-		-			-		-
	TOTAL	54,462.4	47,737.5	6,724.9	159,911.5	112,174.0	339,255.3	292,761.3	46,494.0	46,494.0	-

^{*} Funds received through Contract P00062 dated April 1, 2021

Based upon FY21 forecast the remaining uncosted balance will fund SWS through June 1, 2021 and RL-0020 through August 25, 2021

Excludes CLIN 8 DOE Directed Work Scope (DDWS) (non-PMB scope)

Performance Summary

The current Integrated Investment Portfolio (IIP) was submitted to DOE-RL January 15, 2021 and based upon CBAG Rev 0. Since then revised direction was received in CBAG Rev 2 on March 9, 2021 that increased funding in the IIP and brought it in alignment with scope being performed. An updated IIP is in process that will align the funding targets accordingly.

Cost Variance Analysis: The FYTD variance is primarily due to the IIP being understated and has not been aligned to FY21 work scope; pending completion of an updated IIP to align with CBAG Rev 2 received March 9, 2021. The overrun for RL-0020 is primarily due labor cost being higher than planned because overtime pay for Security Guards was not included in the plan due to the way it was proposed. This is offset in RL-0201 for Reliability Projects that will be realigned with the updated IIP and DOE-RL guidance received under CBAG Rev 2. SWS experienced surplus budget for records management in Presidents Office. Also, there are open requisitions to be filled causing an underrun.

^{**} RL Expected Funding thru CBAG Rev 2 - Pending completion/approval of Integrated Investment



Variance at Completion: The \$46M Variance at Completion is primarily due to \$19.7M in RL-0201 for L-612, 230kV Transmission System Reconditioning and Sustainability Repairs that is being held back pending DOE-RL direction and is funding specifically held for Project L-612. Reliability Project will carryover scope that is encumbered that will complete in FY22. The \$13.4M variance for RL-0020 is primarily due to funding that will be utilized for a continuing resolution into FY22 and future reductions requested by DOE-RL.

The Direct Cost Adder (DCA) collects the cost of centralized management, support from others, craft indirect time, and non-labor cost such as training and facilities. These costs are distributed via a rate on direct labor. Usage-Based Services (UBS) are services liquidated to customers (internal and external). The UBS cost is associated with a service and distributed on a unit rate to the customer based upon requests ("pay by the drink").

Table 3. Usage-Based Services/Direct Cost Adder Summary (Dollars in Thousands)

	Fiscal Year To Date March FY21					FY21 HMIS Fiscal Year End			
Account Description	(Budget) Budgeted Cost of Work Scheduled (BCWS)	(Actuals) Actual Cost of Work Performed (ACWP)	Cost Variance	Liquidation	Liquidation (Over) / Under	Budget At Completion (BAC)	Outlook	Forecasted Liquidation	Forecasted Liquidation (Over) / Under
Direct Cost Adder (DCA)									
Software Services (4001.09.06.01.01)	1,230.9	445.9	785.1	(523.4)	(77.5)	5,525.9	1,954.3	(2,354.4)	(400.1)
Records Mgmt (4001.09.06.07.01)	278.1	377.4	(99.3)	(205.3)	172.1	1,248.3	1,244.1	(965.4)	278.7
Janitorial Services (4001.09.08.02.02)	280.4	293.2	(12.8)	(358.6)	(65.5)	1,258.8	1,346.4	(1,442.8)	(96.4)
Maintenance (400 1.09.08.02.01)	1,131.7	1,758.9	(627.2)	(1,115.1)	643.8	5,080.4	7,332.8	(7,104.4)	228.4
Trans portation (4001.09.02.01.01)	832.2	851.4	(19.2)	(826.4)	25.0	3,735.8	4,249.0	(4,247.9)	1.1
Total Direct Cost Adder - Total	3,753.3	3,726.7	26.6	(3,028.8)	697.9	16,849.2	16,126.6	(16,114.9)	11.7
Usage Based Service									
Dosimetry (4001.09.10.08.01)	730.4	799.8	(69.4)	(765.2)	34.7	3,278.9	4,185.4	(4,182.6)	2.8
Training (4001.09.05.01.01)	1,971.2	2,894.1	(922.9)	(3,568.2)	(674.1)	8,849.1	12,410.3	(12,803.6)	(393.3)
Hanford Rad Instrumentation Prog (4001.09.10.08.02)	597.6	444.1	153.5	(499.8)	(55.7)	2,682.7	3,001.5	(2,906.4)	95.1
Information Technology Services (4001.09.06.03)	4,532.0	3,489.4	1,042.6	(5,614.8)	(2,125.4)	20,344.6	23,651.3	(23,651.3)	0.0
Work Management (4001.09.08.02.04/05)	58.4	99.6	(41.2)	(116.7)	(17.1)	262.3	508.5	(508.4)	0.1
Occupancy Lease (4001.09.08.02.03.04)	613.5	1,183.4	(569.9)	(827.3)	356.1	2,754.0	3,618.1	(3,307.1)	311.0
Occupancy Gov't (4001.09.08.02.03.05)	642.7	709.0	(66.3)	(887.4)	(178.4)	2,885.1	3,352.4	(3,547.2)	(194.8)
Crane & Rigging (4001.09.02.03.01)	1,577.8	1,729.3	(151.5)	(1,661.2)	68.1	7,083.1	8,531.0	(8,485.5)	45.5
Fleet Fuel Delivered (4001.09.02.02.03.04)	92.7	87.6	5.1	(84.6)	3.0	416.3	357.0	(389.8)	(32.8)
Fleet Fuel Consumed (4001.09.02.02.03.05)	510.0	292.5	217.5	(250.3)	42.2	2,289.6	1,608.8	(1,532.1)	76.7
Fleet Services (4001.09.02.02.01)	2,735.6	1,336.4	1,399.3	(998.9)	337.5	12,280.6	6,811.2	(6,878.4)	(67.2)
Fleet Materials (4001.09.02.02.02)	927.3	278.3	649.0	(160.2)	118.2	4,162.9	1,874.6	(1,885.7)	(11.1)
Fleet GSA Vehicle Maint (4001.09.02.02.04)	370.9	156.2	214.7	(118.8)	37.5	1,665.2	996.0	(953.7)	42.3
Courier Services (4001.09.07.05.01.01)	48.2	35.5	12.7	(34.3)	1.2	216.2	151.6	(151.7)	(0.1)
Usage Based Service - Total	15,408.4	13,535.3	1,873.1	(15,587.5)	(2,052.3)	69,170.6	71,057.7	(71,183.5)	(125.8)
Variable Services Total	19,161.7	17,262.0	1,899.7	(18,616.4)	(1,354.4)	86,019.8	87,184.3	(87,298.4)	(114.1)

Usage Based Service/Direct Cost Adder – The fiscal year to date (FYTD) positive cost variance of \$1.9M is primarily driven per cost underruns of Fleet Services/Materials and the Information Technology pool accounts. The Fleet UBS pools underrun is primarily driven by work in process job tickets and timing delays of the costing of material procurements across the two service accounts. The FYTD Information Technology cost underrun is due to the timing of large one time license costs forecast for fiscal May. The listed BCWS level spreads this procurement



budget across the year, thus an underrun is expected through April, pending the large May cost procurements.

7.0 PERTINENT BUSINESS INFORMATION

Table 4. Small Business Statistics – March

Socio Economic Category	Goals	March (03/01/2021 through 03/31/2021)	FY21 Actual to Date	Cumulative
Small Business (SB)	55%	79.49%	87.54%	87.54%
Small Disadvantaged Business (SDB)	8%	17.96%	56.85%	56.85%
Small Woman Owned Business (SWOB)	8%	13.89%	55.60%	55.60%
HUBZone (HUB)	4%	8.24%	10.38%	10.38%
Service Disabled Veteran Owned (SDVO)	4%	7.75%	2.12%	2.12%
Veteran Owned Small Business (VOSB)	5%	15.48%	5.22%	5.22%

HMIS is achieving all Small Business Goals with the exception of Service Disabled Veteran Owned (SDVO). HMIS Procurement is working to increase the number of companies available in this category so more business opportunities can be contracted to SDVO businesses.

8.0 BASELINE CHANGE REQUESTS

In March, HMIS approved and implemented seven Baseline Change Requests (BCRs) into the Contractor Performance Baseline (CPB), six of which impacted the CPB budget. The change requests are identified in the following table:



Table 5. March 2021 Baseline Change Requests

Change Request#	Title	CLIN	Summary of Change
BCR-HMS-21-003	Align Reliability Projects and Other CLIN 4 AUW Scope with FY21 Execution Strategy	4 and 7	This BCR aligned EF32, L-781, L-826, and L-934 projects to the current execution strategies.
BCR-HMS-21-004	Change Responsible Org and Funding Type for H-Projects (H-002 & H-006)	4	This BCR changed the project type for H-002 and H-006 from RL-0201 to SWS and changed the responsible organization from Reliability Projects to Information Management, which moved scope between two level 3 WBSs. In addition, this BCR aligned the two projects to the current execution strategies.
BCR-HMS-21-005	Establish New Control Account from UB for Traffic Management	4	This BCR drew down from CLIN 4 UB to detail plan traffic management as it was initially incorrectly determined during transition that all services within Section C.4.2.1 "Motor Carrier Services" were to be replanned as indirect functions.
BCR-HMS-21-006	Align PMB with Submitted Curation Services and Collections Management Proposal	4	This BCR distributed AUW FY2021 budget to Curation as contract modification P00022 added the scope to Section C.4.9.6.
BCR-HMS-21-007	Align Records & Software Engineering Resources with Revised Execution Strategy (Indirects/Non-PMB Only)	4 and N/A	This BCR replanned records and software engineering direct labor to subcontract resources for indirect and non-PMB accounts only to align with execution strategy.
BCR-HMS-21-009	Update Level of Effort Schedule Activity Titles	4 and 5	This BCR modified LOE schedule activity titles to reflect the scope of work being performed.
BCR-HMS-21-010	Update ProgramLog for Contract Modifications P00047, P00050, P00051, P00052, P00054, and Letter 21-ISD-000955	4 and 8	This BCR implemented programlog entries for contract modifications P00047 through P00054 and letter of direction 21-ISD-000955. This BCR also repriced CLIN 4 UB with the original proposal rates vs. the HMIS forward pricing labor rates. In addition, the boundaries in which to drawdown CLIN 4 UB were defined.

8.1 Undistributed Budget Activity

In March, the largest contributor to the change in Undistributed Budget (UB) was BCR-HMS-21-010. This BCR repriced CLIN 4 UB with the original proposal rates vs. the HMIS



forward pricing rates and ensured UB was only being drawn down for indirect cost for those activities originally bid in the proposal while accounting for a DOE-RL CO letter of direction and various contract modifications.

Table 6. March 2021 Undistributed Budget (Dollars in Thousands)

Change Request#	Change Request# Title		UB
BCR-HMS-21- 003	Align Reliability Projects and Other CLIN 4 AUW Scope with FY21 Execution Strategy	4	(\$43)
BCR-HMS-21- 005	Establish New Control Account from UB for Traffic Management	4	(\$405)
BCR-HMS-21- 010	Update ProgramLog for Contract Modifications P00047, P00050, P00051, P00052, P00054, and Letter 21-ISD-000955	4	(\$15,548)

8.2 Management Reserve Activity

There was no change in Management Reserve (MR) in March.

9.0 RISK MANAGEMENT

Program Services and Support: Refer to Section A of this report for Program Services and Support specific risk assessments.

Reliability Projects: Refer to Section B of this report for project-specific risk assessments.

10.0 PROGRAM CONDITION STATUS

Table 7. Hanford Site Infrastructure System Health and Status Summary
DATA CURRENT THROUGH MARCH 2021

INFRASTRUCTURE SYSTEM			SYSTEM HEALTH RATINGS				
		SYSTEM DESCRIPTION	OVERALL STATUS	AVAILABILITY	MAINTENANCE	CONFIGURATION	
EWER	MSA-ENG-61732, Rev 12 Updated Quarterly Export Water (INFRA-EW) Data: Oct - Dec 2020 Last Published: Jan 2021	This system provides export water to the 200 East & West Areas of the Hanford Site. Columbia River water is pumped to the 100-B and 100-D Areas and placed in settling basins. This system interfaces with both the raw and sanitary water systems.	85% (+8%)	82% (+13%)	94% (NC)	85% (+2%)	
WATER/SEWER	MSA-ENG-61731, Rev 12 Updated Quarterly Raw Water (INFRA-RW) Data: Oct - Dec 2020 Last Published: Jan 2021	This system delivers raw water from the 200 Area reservoirs to the 200 Areas of the Hanford Site.	72% (+1%)	55% (NC)	97% (+1%)	96% (+4%)	
	MSA-ENG-61730, Rev 12 Updated Quarterly		92%	92%	93%	91%	



	Sanitary Water (INFRA-SW)	This system treats export water for human use and	(NC)	(NC)	(+2%)	(+1%)
	(INF KA-3 VV) Data: Oct - Dec 2020 Last Published: Jan 2021	consumption in the 200 Areas of the Hanford Site.				
	MSA-ENG-61729, Rev 12 Updated Quarterly					
	Sanitary Sewer (INFRA-SNS)	This system receives and processes waste water generated from occupied facilities in the 200 Areas of the Hanford Site.	86% (+1%)	79% (+3%)	93% (-6%)	100% (+2%)
	Data: Oct - Dec 2020 Last Published: Jan 2021					
	MSA-ENG-65161 Updated Semi-Annually	This system provides access control & intrusion detection capabilities at the Hanford Site excluding				
SAS	Safeguards and Security (INFRA-SAS) Data: Jan - Jun 2020 Last Published: Aug 2020	the 200 Area Interim Storage Area. The boundary for each facility security system is defined by the power source.	97% (-2%)	100% (NC)	96% (-4%)	95% (NC)
	MSA-ENG-63338, Rev 7 Updated Quarterly	This system provides electricity to the entire				
	Transmission (INFRA-Transmission) Data: Oct - Dec 2020 Last Published: Jan 2021	Hanford Site by powering three 230 kV substations and one 115kV substation that powers the 400 Area. Major components of the system include the power lines, structures, and foundations. The deactivated A7 substation is this system as it functions only to transmit power.	See Note 5 (NC)	100% (NC)	96% (-4%)	100% (NC)
	MSA-ENG-61463, Rev 12 Updated Quarterly	This system provides power to the entire Hanford				
	Distribution (INFRA-Distribution) (INFRA-T&D) Data: Oct - Dec 2020 Last Published: Jan 2021	Site from the substations using overhead and some underground distribution lines. Major components of the system include service transformers, conductor, poles, line fault indicators, pole-top reclosers, capacitor banks and pole-top switches.	94.4% (-2.8%)	99.9% (-0.1%)	86% (-1%)	86% (-13%)
	MSA-ENG-61651, Rev 12 Updated Quarterly	This system provides real-time knowledge of the				
S	Supervisory, Control, and Data Acquisition (INFRA-EU_SCADA) Data: Oct - Dec 2020 Last Published: Jan 2021	electrical power flowing through the INFRA-TRANSMISSION, INFRA-SUB_A6, INFRA-SUB_A8, INFRA-SUB_A9, and INFRA-DISTRIBUTION systems. This system has some real-time knowledge of the INFRA-SUB_451B system. It performs remote operation of some	86.66% (-1.59%) See Note 6	99.989% (+0.039%)	91.6% (-4%)	98.3% (-0.9%)
ELECTRICAL UTILITIES	Data: Oct - Dec 2020 Last Published: Jan 2021	switches.				
[III]	MSA-ENG-61504, Rev 12 Updated Quarterly	This system provides data collection, energy				
, U	Electrical Utilities: Meter Data	management, & access by stakeholders through a web-based Energy Management Module, and	92.6% (-0.8%)	98.5%	95.4%	99,37%
CAI	Management System (INFRA-MDMS)	energy billing to support the unique Hanford	See Note	(+ 0.1 %)	(-2%)	(-0.63)
[RI	Data: Oct - Dec 2020 Last Published: Jan 2021	electrical billing process for BPA billing, costing, forecast, and rate.	6			
ECI		<u> </u>				
EL	Substation A6 (INFRA-SUB_A6) Data: Oct - Dec 2020 Updated Quarterly Last Published: Jan 2021	This 230 kV substation monitors, protects, and controls the electrical power to the Waste Treatment Plant (WTP) Complex. The substation transforms transmission power to distribution power, which is supplied underground to the WTP 13.8 kV Switchgear Building.	99.6% (+1.4%)	100% (NC) See Note 7	100% (+6%)	97% (NC)
	MSA-ENG-61720, Rev 12 Updated Quarterly	This 230 kV substation monitors, protects, and				
	Substation A8 (INFRA-SUB_A8) Data: Oct - Dec 2020 Last Published: Jan 2021	controls the electrical power to the 200 East and 200 West Areas. The substation transforms transmission power to distribution power. This substation also provides backup power to Substation A9, which supplies the 100 Areas.	98.0% (+4.4%)	100% (NC) See Note 7	100% (+29 %)	90.0% (-7%)
	MSA-ENG-61720, Rev 12 Updated Quarterly	This 230 kV substation monitors, protects, and				
	Substation A9 (INFRA-SUB_A9) Data: Oct - Dec 2020 Last Published: Jan 20215	controls the electrical power to the 100 Areas. The substation transforms transmission power to distribution power.	95.2% (-0.8%)	100% (NC) See Note 7	76% (-4%)	100% (NC)
	MSA-ENG-61720, Rev 12 Updated Quarterly	This 115 kV substation monitors, protects, and				
	Substation 451B (INFRA-SUB_451B)	controls the electrical power to the 400 Area and Laser Interferometer Gravitational Observatory. The substation transforms transmission power to distribution power.	71.0% (-0.1%) See Note 8	100% (NC)	88% (+14 %)	85% (-15%)
	Data: Oct - Dec 2020 Last Published: Jan 2021 MSA-ENG-63025 Updated Semi-Annually	distribution power.	93%	94%	100%	81%
	opulca sem Amualy		23/0	⊅ ₹/0	100 /0	01 /0



	Core Telecommunication Infrastructure	The function of this system is to provide voice and data services to the Hanford Site. System includes	(-1%)	(NC)	(NC)	(-9%)
	(INFRA-TELECOM) Data: Apr 2020 - Sep 2020 Last Published: Oct 2020	the telecommunication equipment at all the core Information Management Facilities.				
3Y	MSA-ENG-63536 Updated Semi-Annually Outside Plant Telecom Infrastructure (INFRA-OSP) Data: Apr 2020 - Mar 2019 Last Published: Oct 2020	This system manages all fiber, copper and wireless outside plant infrastructure. INFRA-OSP includes the fiber summary map and spectrum management map. This system interfaces with other core telecommunication systems.	94% (-2%)	95% (NC)	92% (-8%)	94% (NC)
INFORMATION TECHNOLOGY	HMIS-ENG-65998, Rev 0 Updated Semi-Annually Campus Network Infrastructure (INFRA-CAMPUS) Data: Jul - Dec 2020 Last Published: Jan 2021	This system manages all components associated with the end building network connectivity and includes but is not limited to building network switches, indoor wireless access points, telecommunication rooms, backboards and networks logic diagrams. This system interfaces with other core telecommunication systems.	95% (+3%)	95% (+6%)	100% (NC)	91% (-2%)
INFORMAT	MSA-ENG-63824, Rev 3 Updated Semi-Annually Special Circuits (INFRA-SC) Data: Jul – Dec 2020 Last Published: Jan 2021	This system manages all of the special circuits providing telecommunications connectivity across the Hanford Site. This system interfaces with the core telecommunication system.	100% (NC)	100% (NC)	100% (NC)	99% (NC)
	HMIS-ENG-66002, Rev 0 Updated Semi-Annually Hanford Site Emergency Alerting System (INFRA-HSEAS) Data: Jul - Dec 2021 Last Published: Feb 2021	This system manages all drawings, diagrams, and maps associated with the Hanford Site Emergency Alerting System (HSEAS). System includes sirens, message reader boards (MRB), tone alert radios (TAR), and AM radio stations.	77% (+1%)	72% (NC)	73% (+1%)	94% (NC)
	Breathing Air System (INFRA-FIRE_AIR) Data: Jul - Dec 2020 Updated Semi-Annually Breathing Air System (INFRA-FIRE_AIR)	This system provides Grade D, or better, breathing air for Self-Contained Breathing Apparatus (SCBA) bottles, tanks for bottle carts, and emergency vehicles. The system also provides breathing air for SCBA unit testing and repair shops located at HAMMER and Building 609G.	96% (NC)	97% (+1%)	90% (NC)	100% (NC)
MSAFIRESYSTEMS	MSA-ENG-61895, Rev 6 Updated Semi-Annually Radio Fire Alarm Reporter (INFRA-RFAR) Data: Jul - Dec 2020 Last Published: Jan 2021	This system transmits and receives alarm and trouble event signals primarily from facility fire alarm control panels to the Hanford Fire Department Dispatch Center located in the 200 Area Fire Station. RFAR is Factory Mutual-approved and meets NFPA 72.	92% (+1%)	95% (NC)	92% (+4%)	83% (NC)
MSAFIR	HMIS-ENG-66004, Rev 0 Updated Semi-Annually Fire Alarms (INFRA-FA) Data: Jul – Dec 2020 Last Published: Jan 2021	This system alerts building occupants of smoke and/or fire within the building and associated structures, while automatically summoning emergency services because of the activated alarm(s). [MSA facilities only].	85% (-3%)	94% (-3%)	70% (- 10%)	73% (+2%)
	HMIS-ENG-61894, Rev 0 Updated Semi-Annually Fire Suppression (INFRA-FIRE_SUPP) Data: Jul - Dec 2020 Last Published: Feb 2021	This system provides automatic controls for fires in buildings using; water, carbon dioxide, dry chemical, clean agents (Halon replacements), and high-expansion foams for the protection of certain portions of buildings or occupancy types. [MSA facilities only]	84% (+1%)	100% (NC)	73% (+5%)	48% (+1%)
ROADS	MSA-ENG-62646 Updated Annually Hanford Site Roads (INFRA-ROADS) Data: Oct 2019 – Sep 2020 Last Published: Sep 2020	This system provides safe and compliant road networks to support continued operations and closure of the Hanford Site. Major components of the system include primary, secondary, and tertiary roads.	92% (+9%)	86% (-1%) See Note 10	100% (+41 %)	100% (NC)



Notes:

- MSC-PRO-ENG-61164, Infrastructure System Health and Status Reports, describes the process for report and ratings development.
- In general, the Overall Status is calculated using Availability, Maintenance, and Configuration ratings. For some specific systems, aging or other Design Authority considerations has been factored in and a specific Note is identified.
- Chart is based on the most recent published data for each system.
- When data is available from a prior reporting period, the delta increase or decrease in the score is shown in parentheses below the current
- Report includes separate ratings for status of North and South Loops. Overall status for this system exceeds goal value shown in report.
- Consideration of system aging resulted in reduction of Overall System Status. See report for details on how this affects the Overall System
- Report also calculates and presents availability of Bulk Electric System (BES) Transfer Trip Communications System, which is not presented in this summary table.
- Overall System Status score scaled by 0.75 to reflect age of system and current period issues with transformer B5810C. See report for details.
- 10. This score for Roads is defined by the Design Authority as Condition in the report, as appropriate to this system.

Rating Legend	Rating Description
<u>></u> 90%	Meets Goal
<u>></u> 70% < 90%	Minimally Acceptable (Below Goal)
<70%	Not Acceptable

<u>Note:</u> Published documents will be changed at next revision in April.

Revision Summary:

FY21-01: Updates to reflect latest updates to reports for INFRA-EW, INFRA-RW, INFRA-SW, INFRA-SNS, INFRA-Transmission, INFRA-Distribution, INFRA EU_SCADA, INFRA-MDMS, INFRA-SUB_A6, INFRA-SUB_A8, INFRA-SUB_A9, INFRA-SUB_451B, INFRA-TELECOM, and INFRA-OSP.

FY21-02: Updates to reflect latest updates to reports for INFRA-EW, INFRA-RW, INFRA-SW, INFRA-SNS, INFRA-Transmission, INFRA-Distribution, INFRA EU_SCADA, INFRA-MDMS, INFRA-SUB_A6, INFRA-SUB_A8, INFRA-SUB_A9, and INFRA-SUB_451B.

FY21-03: Updates to reflect latest updates to reports for INFRA-SC, INFRA-CAMPUS, INFRA-HSEAS, INFRA-RFAR, INFRA-FA, and INFRA-SUPP.

SSIM – (Maintenance Services) Maintenance Productivity

TCO – Page 1 (Corrective Maintenance) All Sites – Requested Maintenance

TCO – Page 2 (Preventive Maintenance) All Sites – Routine Maintenance

TCO - Page 2(Maintenance and Work Control) Resource Allocation Requested vs. Filled

GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I) 11.0

HMIS Contracts is currently reviewing the J.11 table in relationship to C.3 of the contract and J.10.2. Needs identified to date are identified in Table 9.



Table 8. Government Furnished Services and Information

Contract Section	Identification	GFS/I	Due	Status
C.4.12.7.1	GF0035	DOE provides a Hanford "planning case" budgetto prepare the DRAFT Hanford Lifecycle Scope, Schedule and Cost Report.	July 1, 2011 for TPA Milestone M- 036-01B (2012 Lifecycle Report), and annually thereafter by June 1 for the remaining M- 036-01 milestones	Planning case will be received in April (RL) and August (ORP). Need to revise the J.11 to reflect revised plan.

12.0 DOE ACTIONS/DECISIONS

Program Services and Support: Refer to Section A of this report for Program Services and Support specific DOE actions/decisions.

Reliability Projects: Refer to Section B of this report for project-specific DOE actions/decisions.



Section A



Program Services and Support



1.0 PROGRAM SERVICES AND SUPPORT SUMMARY

Key accomplishments and progress towards completion of goals and objectives, for the month of March, included:

President's Office:

- Chief of Staff/Communications
 - o HMIS supported final logistics and coordination for the 2021 Waste Management Symposia. Bob Wilkinson and Amy Basche participated in the three executive-level panels and HMIS employees highlighted six other HMIS-led programs or projects during oral and poster sessions, including the Hanford Site Traffic Safety Initiative and leveraging location intelligence.
 - o HMIS facilitated a virtual kaizen for Hanford Site records disposition to develop an agreed-upon, legally defensible process. The process will allow HMIS to meet contractual requirements to dispose of 10% of the current volume of physical records within 6 months of plan approval. Currently, over 50k cubic feet of physical records are eligible for disposition and disposal.
 - A virtual workshop was completed to develop a One Hanford messaging strategy. The workshop included communications teams from DOE, HMIS and OHCs. The team collaborated on Site communication priorities, roles and responsibilities and future actions to align Site wide messaging.
 - o At DOE's request, HMIS collected and analyzed data of HAB member attendance, including the percentage of meetings where stakeholders were represented. Among other conclusions, analysis shows that five of the HAB stakeholder organizations have an attendance rating under 50%.
 - o HMIS assisted DOE with a presentation on the virtual tours website to the HAB Public Involvement Committee. HMIS staff did a live orientation and navigation of the virtual tours website for the committee participants.
 - o HMIS participated in three HAB virtual meetings and two calls. Staff updated a HAB contact list with the proposed new HAB membership. The sharing of key information and successful interaction with the HAB is a critical aspect of moving the Hanford Site forward from cleanup to operations on schedule.
 - o HMIS coordinated a virtual Hanford Speakers Bureau presentation with Columbia Center Rotary. Brian Stickney provided a history of the Site, impacts of COVID-19, cleanup accomplishments and goals for the future, including waste treatment at the Waste Treatment Plant. Approximately 50 attended the presentation.
 - o HMIS drafted and/or edited and sent 11 general delivery messages in March, primarily related to traffic impacts and COVID-19 information.

• Ethics

o Processed more than 1900 Conflict of Interest disclosures for HMIS employees after the February "HMIS Conflict of Interest Kick-off" and a March "COI 101" communication which educated employees on why it is important to complete these forms. Stemming



from this focus, the E&C group fielded many questions and provided a presentation on COIs at a Mid-level ZAC meeting.

Employee Concerns

o HMIS participated in the National Association for Employee Concerns Professionals virtual conference. The NAECP is the premiere professional organization for those who provide Employee Concerns Program services in regulated industries such as nuclear power, the DOE and oil and gas. The conference provides insight from employee concerns professionals across the industries and includes expert analysis and feedback as well as case studies and insight from ECP and legal professionals. As the Hanford Site integrator for the site-wide ECP process, HMIS offers valuable information regarding consistent processes and the benefits of collaboration among contractors and the DOE for successful concerns resolution. The conference focused on the importance of embracing different communication and investigation methods to continue resolving issues while working during a pandemic. A mental health professional was featured as a guest speaker to raise awareness of some of the challenges our employees are facing as their work environment shifts and how ECP professionals can help. The conference included breakout sessions to discuss industry-specific topics. The DOE ECP is under new leadership so the DOE breakout session was a good exchange of information regarding expectations between field offices, headquarters, and contractors. The breakout session also presented DOE specific case studies for discussion.

Business Integration and Operations:

- Site Mission Integration
 - o Continued closing HLCCB scope gaps and pricing capability.
 - o Continued revisions to the HLCCB Change Control charters (HCAB, ESAAB-E), and evaluated potential changes to the DOE Decision Management Procedure. Continued testing of the HLANBCR change control module.
 - o Presented updated Hanford Integrated Priority List criteria to DOE along with sensitivity rankings.
 - o Coordinating with DOE-ORP for Contractor Lifecycle Cost Estimate (CLCE) update with Lifecycle Report.
 - o Supported Budget Formulation in updating EM-FIS system lifecycle cost values. Coordinating potential stimulus projects inputs from HMIS.

Procurement

o HMIS Procurement held their first Subcontractor Quarterly on March 30, 2021. Approximately 30 subcontractors attended with a total of 55 attendees present on the call. During the call, HMIS provided a recap of the information provided in the initial subcontractor quarterly that was held in February 2021. HMIS provided information to the subcontractors as to what some of the HMESC requirements flowed down entail and what the subcontractors need to do to comply. In addition, HMIS provided an overview of the subcontracting goals, where we are to date, as well as a list of subcontracting opportunities that will be released in the next 90-120 days.



- o Procurement has completed qualification of personnel, who were previously qualified as a BTR under the MSA BTR Training program as well as new individuals identified by their organization. The completion of the qualification course has resulted in a total of 108 individuals who have been qualified as a BTR under the new BTR training program.
- o eBOM Training: eBOM training provided to new users of the recently awarded Subcontract 73379, M&TE Calibration Services. Maintenance Management, Buyers Technical Representative and Contract Specialist all attended eBOM training to ensure accurate BOM submission for review and approval of monthly billing for calibration services performed by awarded subcontractor, Energy Northwest.
- Operations, Quality Assurance, Engineering and other Hanford contractors (CPCco & PNNL) to discuss acquiring quality level 3, white, 55-gallon TRU waste drums. New information received from PNNL forecasts an increase in usage of these drums. Discussions included availability, procurement process and Quality Assurance Inspection Plan updates to the existing Catalog ID

• Finance & Accounting

- o HMIS has invoiced \$24,739,454 as of March 31, 2021 to DOE and OHCs.
- o HMIS Finance worked tirelessly with DOE answering questions on invoices to get passed the initial review process and are now anticipating payment by end of the week, with little questioned costs.
- o HMIS Finance continues to work closely with Corporate to streamline corporate reporting responsibilities.

Infrastructure & Site Services:

• Infrastructure:

o Provided Water Purveyor oversight of subcontractor installation, flushing, and disinfection of system improvements associated with CPCco projects W-135 and IDF. Oversight activities ensure work was performed within the applicable regulations and work documents.





• On 03/26/2021 at approximately 1700 hours, Hanford Patrol discovered that the 2607-E11 Lift Station in the 200 East Area was releasing sewage to the ground. It is estimated that approximately 1,000 gallons of sewage was released due to an upstream sewage system isolation valve malfunctioning (the valve is a 3-piece unit that is screwed together). The lift station was deactivated, stopping further discharges to the ground.



• On 3/29/21 Water & Sewer Utilities (W&SU) received notification of a water release at PFP. Z-335 was the project working on the cut and cap at PFP at the time of the leak. Excavation of the line and the isolation valve 488S had been completed and the line downstream of the service connection was cut and capped, however, no thrust restraint was provided. After dewatering of the leak site, it was found that the compression fitting failed to securely hold the valve 488S in place and was pushed off the end of the pipe, resulting in the water leak.







- Location #1: The compression fitting was removed and a plug installed to complete the cut and cap activity at 488S.
- Location #2: The service connection piping was removed from the downstream side of valve 487S and a blank flange was installed on the downstream side of the valve, completing the cut and cap activity.
- Location #3: The distribution main isolation valve 235S, was located in a concrete vault. The
 piping on the downstream side of this valve was removed and a blank flange was installed.
 Thrust restraint was provided at this location to prevent the valve from slipping off the
 piping.
- Operation Support Services worked with Energy Northwest (ENW) and Burlington Northern Santa Fe Railway (BNSF) to coordinate the rail shipment of critical equipment to ENW. On March 25, 2021, with support from the HMIS Roads and Grounds crews, the shipment was safely and successfully transported across the rail, meeting the ENW milestone. Another shipment is planned for July 2021. (photos below)





- Operation Support Services is working to install and maintain the Visual Communication
 System (VCS) to deploy the One Hanford mission. The HFD is one of the last HMIS
 organizations to integrate into the VCS, where information, such as site-wide Stop Work data
 and Communications slides are shared visually on large screen TVs. The VCS also provides
 users with the ability upload and deploy information of their choosing and provides a
 platform for training.
- Operation Support Services Procedure Management has successfully processed the blue-sheet updates for 23% of documents requiring blue-sheet updates. The next deadline is April 25, when the 90-day blue-sheets are due.
- The FSM team responded to and corrected 46 fire system deficiencies in the month of March. Of these deficiencies, 10 were classified as emergency impairments. This category of deficiencies renders fire protection systems inoperable, and immediate response is imperative to ensure proper fire protection system functionality. Some of the emergency impairments occurred at critical facilities on site, including 2704HV (Smurf), 2025E (ETF), and the 242A Evaporator. The FSM team shuffled priorities to ensure these items were corrected in a timely manner.
- Project L-905 completed the installation of new fire protection systems at 506BA, MO-413, and 2751E in March. Crews from the FSM and HFD teams provided field support during construction acceptance testing and operational testing of the units. All three units are anticipated to be online in early April.
- FSM and HFD performed a flow test of hydrant R3AP, near the TSCR complex. This newly installed hydrant supports fire protection of TSCR and the tank farms vicinity. Performing the flow test validates the performance of the hydrant, and the data was provided to TSCR project engineering to support calculations and other document development.
- Maintenance Management Programs application upgrade received WBS/CACN for SQA Completion, FIND & ArcGIS Indoors development and Cold Fusion rewrite.
- In process of revising HMIS-GD-FM-16276, Periodic Maintenance and Calibration Program Implementation Guide.



- Updated and tested version 7.6 JCS CMMS system for user enhancements (supported SES group).
- Roles and Responsibilities discussion on ERMA process for TerraGraphics and HMIS.
 Worked through who the Points of Contact will be during the ERMA, who is providing
 direction to SME, craft support for priority of work scope. In addition, Water/Sewer
 submitting KSR for Repetitive Use documents to cover various ERMA scopes. This will
 allow packages to be ready to work based off of scope/hazards, but scans will still be
 required prior to Excavation.
- Refrigeration Equipment Services Preventative Maintenance Schedule and procedure completed to support the TSCR project. This PM is setup for a reoccurring 6 month cycle.
- Meeting with TerraGraphics to discuss out of scope work at Fire Systems Maintenance.
 Followed this up with a meeting with Fire Systems Maintenance and reviewed what was thought to be out of scope. Provided direction back to the Contract Specialist to provide information of what was out of scope or in scope back to TerraGraphics.
 - o TerraGraphics employee performing discrepancy duties was not in the scope of contract.
 - o PM duties was in the scope of contract per 19304 Periodic Maintenance Process

Site Services:

- Field support for commissioning three newly installed Fire Alarm Control Units (FACUs) and Radio Fire Alarm Reporter (RFARs) has begun as part of project L-905. 506BA, MO-413, and 2751E are having new fire alarm systems installed to replace aging and problematic infrastructure. The three facilities are performing construction acceptance testing and operational testing throughout the month of March, supported by Hanford Fire Department (HFD), Fire System Maintenance (FSM), and Radio Maintenance organizations.
- The Tank-Side Cesium Removal (TSCR) fire suppression system is currently under construction, with concurrent support from FSM developing the PM procedures and PM/S activity development. The procedures for the alarm systems are complete, and the suppression system nearly complete, awaiting field labeling and final walk down and validation.
- The new FSM leadership team has been diligently working with the OHC's to establish solid working relationships and renewed lines of communications to ensure the level of service provided by the FSM team meets the expectations of the customers.

Interface & Integration Services:

Interface Management:

• HMIS delivered CD0001, *Hanford Site Governance* on March 3, 2021, and supported DOE via briefings to the Hanford Leadership Council (HLC) and the Contractor Interface Board (CIB). HMIS worked closely with DOE in updating this document. Since it was issued one year ago, key revisions were made to more accurately reflect how DOE wishes to organize and govern the Hanford Site, specifically:



- o The Hanford Governance Council (HGC) will be led by the DOE Site Manager and DOE Deputy Managers. The HGC will continue to focus on policy, strategy, budget, and Site integration.
- o The HLC replaces the Contractor Leadership Council (CLC). The HLC will be chaired by DOE Assistant Managers and include Site Contractor Presidents and Chief Operating Officers (COOs). The HLC will focus on making integrated site-wide decisions, highlighting transparency of information and actions.
- o The CIB will be chaired by the HMIS COO with membership from the OHC COOs and their respective Interface Management Managers. The CIB will continue to focus on collaborative decision-making related to contractual, business/financial, interface management, and integration topics that drive operational efficiencies, resolve intercontractor issues, and elevate key topics to the HLC as necessary.
- Interface Management and Business Operations representatives met with CPCco Interface Management and CPCco Human Resources via Teams on March 2, 2021, to demonstrate the HMIS overtime request process and associated Kinetic Service Request (KSR) request form and reports. CPCco is interested in adopting the HMIS process and a similar KSR form to track CPCco overtime. Based on discussions at the meeting, HMIS is planning to make a few minor changes to the KSR request form and report to address potential gaps in the requirements for approving and tracking overtime. A second meeting with CPCco is planned to review the next version of the form and reports and determine a path forward for CPCco implementation.
- Interface Management communicated with CPCco Interface Management on March 3, 2021, and provided a summary of an issue related to the scheduled CPCco demolition of Building 165-KE and resulting impacts to the permanent safety barrier around the 151-KE Electrical Substation. Building 165-KE serves as a portion of the barrier around the substation, and once removed, a permanent fence will need to be built in its place. This topic will be discussed at a follow-on meeting between HMIS and CPCco.
- At the request of DOE, Interface Management completed a business case analysis evaluating alternatives for operations and maintenance (O&M) of the Hanford Site boilers, as the Johnson Controls Inc. contract for boiler O&M expires on November 15, 2021. HMIS worked with CPCco and WRPS in evaluating and ranking the options. The business case was transmitted to RL on March 15, 2021 (Letter HMIS-2101247).
- HMIS worked with the other Hanford contractors (OHCs) in updating the J.3 Table, submitting Contract Deliverable CD0158, "Hanford Site Services and Interface Requirements Matrix" J.3 Change for 222-S Laboratory Contract Operations, via letter (HMIS-2101547) to DOE on March 29, 2021. This updated version of the J.3 Table. HMIS received concurrences from CPCco, HLMI, HPMC, and WRPS, in support of the new 222-S Laboratory Contract start date of April 15, 2021.

Fleet Services:

 Geo-Tab. Beginning in November 2018, HMIS Fleet Maintenance started installing Geo-Tab GPS (Global Positioning System) telemetry devices in GSA and commercially leased vehicles. WRPS's 400+ vehicles accounted for the first phase in the process, followed by



- MSA/HMIS's 500+, and ending with CHPRC/CPCco's 400+. Currently, this accounts for 1,300+ vehicles equipped with the Geo-Tab units.
- Full implementation of all three contractors considerably improves the customer's ability to keep proper inventory management, document mileage, fuel consumption, engine codes, and driver safety, along with many other features.
- Fleet Maintenance also benefits from the Geo-Tab devices. Response times of service calls have been significantly reduced due to the ability to pinpoint the customer's precise location and at times even troubleshoot vehicle fault codes via the Geo-Tab software before the service mechanics even leave the shop; this allows them to be better prepared for any situation.

HAMMER:

- Submitted contract deliverable CD0061-HAMMER Strategic Plan, CD0062-HAMMER Site Development Plan, and CD0063-HAMMER Facility Master Plan on March 24, 2021.
- Effectively collaborated with site contractors to address the large bow wave in training that
 was forecasted this summer. This bow wave was created due to the HAMMER COVID-19
 shutdown and large number of core training classes conducted upon restart. Training
 coordinators pulled students back into March, April, and May to level out training due dates.
- Accommodated practical training space needed for the upcoming RCT Cycle II Training by
 adjusting room schedules to eliminate downtime for students transitioning to the next
 planned training activity. This preparation helps to minimize crowding in the hallways and
 maintain social distancing protocols.
- Added an HLAN workstation to the State Department Building, which increased the
 presentation options available for instructors and allowed the addition of an OWL
 Conference Room Camera that enhances blended meetings and class structure.
- Implemented an assistive technology for hearing-impaired students. The application transcribes in real-time on an iPad to improve the training experience for students with impaired hearing.
- Revised the Beryllium Sampling Techniques course to include several sampling techniques
 and multiple sample matrices, simulating field beryllium sampling. The updated training
 activities provide a hands-on opportunity for students to practice in a safe learning
 environment prior to conducting sampling in the field.
- Incorporated the N95 filtering face piece into Respiratory Protection training, which was approved for site-wide use through the Respiratory Protection committee.
- The Confederated Tribes of Umatilla Indian Reservation (CTUIR) conducted spring maintenance of the HAMMER Cultural Resource Test Beds with assistance from HMIS archeologists.

Warehouse & Property Management:

• Submitted contract deliverable CD0091-Sitewide Personal Property Management Program on March 25, 2021.



- Continued support to the MSA Closeout Office / HMIS FY 2021 OMB A-123 CR 4209 Property Dispositions Audit.
- Continued supporting the MSA Closeout Office with the OIG IG-60 (S21RL007) High Risk Personal Property (HRPP) / Sensitive Property (SP) / Precious Metals (PM) Management and Disposition Audit.

Transportation Services:

• An HMIS Teamster matrixed to WRPS is representing the HMIS Transportation Field Operations in transporting this 5,000 gallon tanker of tank waste water from AZ farm. The tanker is transported to the Effluent Treatment Facility, where it is unloaded and returned to AZ farm. This routine work activity is performed monthly and requires two spotters when backing the tank into the tent structure at AZ farm due to tight surroundings with many obstacles.



Crane and Rigging

• HMIS Crane & Rigging Services provided a qualified Designated Lead and signal person to install and remove Interchange carriers (IXCs) into the Avantec Tank-Side Cesium Removal (TSCR) unit with a specific forklift and jib attachment designed to lift place and remove IXC'S and filter banks under a WRPS Special Lift procedure(s), during Operational Acceptance Testing (OAT) for the TSCR unit located outside of AP Farm. TSCR Operations supports the Direct-Feed Low-Activity Waste One Hanford mission.





• With safety in mind, HMIS Crane & Rigging Services installed an Engineered Tube and Coupler (scaffolding material) structure to support and Aluminum I-beam and chain hoist to lift and secure heating, ventilation, and air conditioning doors on the East & West sides of the TSCR unit. Once these doors have been lifted into open position, they are secured with a horizontal tube and coupler to prevent downward movement when personnel are within the area.

Mission Assurance:

- The HMIS Performance Oversight group completed an effectiveness review of the software quality assurance program rebuild. The review determined the action taken to build a compliant software quality assurance program had been effective; however, some opportunities for improvement were identified related to procedure clarifications and training of individuals in the various roles described in HMIS-PRO-IS-309, *Controlled Software Management*.
- The HMIS Acquisition Verification Services (AVS) group performed receipt inspection of quality level 1, 2, and 3 items on behalf of the prime contractors. AVS completed the receipt of 235 receivers, comprising of 292-line items, and generated 41 non-conformance reports (NCRs).



Figure A-1. Receipt Inspections Packages Completed by Contractor

 HMIS Quality Assurance Engineers provided oversight of subcontractor activities and reliability project activities by reviewing 285 documents including statements of work, design, construction and procurement project documents, and participated in 16 field oversight/witness activities.



- HMIS completed an apparent cause analysis for HMIS-CR-2021-0049 for the condition
 where the software, BMS-TIS (HISI #1448), was placed into production by the HMIS
 Business Systems organization without all SQA documentation completed and approved.
 One apparent cause and two continuing causes were identified as well as two immediate
 actions and five corrective actions.
- HMIS operates the Centralized Consolidation/Recycling Center (CCRC) and receives
 Universal Waste (UW) and other types of recyclable commodities from all site contractors.
 The UW and recyclable commodities are then shipped offsite to approved recyclers. The
 tables below represent the volume of waste received by and shipped from the CCRC.

Table A-1. CCRC Shipments

Items Shipped to the CCRC During March FY2021											
	Received From										
Material Received		HMIS	СРСсо	WRPS	PNNL	WTP	DOE- RL	Totals			
Mercury Containing Equipment	Gross Pounds	31						31			
Non-PCB Ballasts	Gross Pounds			172				172			
UW Lamps (All Types)	Gross Pounds	30	44	51		48		173			
UW Batteries (All Types)	Gross Pounds	965	176					1,141			
Lead Acid Batteries	Gross Pounds	6						6			
AerosolCans	Cans Received	157						157			
Aeros ol Cans	Cans Punctured							0			

Table A-2. CCRC Off-Site Shipments

Off-Site Shipments from the CCRC During March FY2021										
Material Receiv	Material Received									
Mercury Containing Equipment	Gross Pounds	0		0						
Non-PCB Ballasts	Gross Pounds	1,184		1,184						
UW Lamps (All Types)	Gross Pounds	2,125		2,125						
UW Batteries (All Types)	Gross Pounds	2,605		2,605						
Lead Acid Batteries	Gross Pounds	28,964		28,964						



Used Oil	Gross Pounds	17,206	17,206
Spent Antifreeze	Gross Pounds		0
Off-Spec Gasoline	Gross Pounds		0
Off-Spec Diesel Fuel	Gross Pounds		0

- HMIS met with CPCco liquid effluents subject matter expert to review CPCco environmental
 input obligations to HMIS with respect to sitewide environmental reports. Environmental
 reviewed the five liquid effluents related contract deliverable sitewide reports compiled and
 submitted by HMIS on behalf of the site. CPCco is required by Contract to provide input to
 HMIS in support of these reports.
- Environmental had two Contract Deliverables due in March. The Contract Deliverables were (1) CD0322, "Annual Criteria and Toxic Air Pollutants Air Emissions Inventory Report," and (2) CD0320, "Greenhouse Gas Emissions Report." Environmental also had two Contract Deliverables due in April that were submitted ahead of schedule in March, (1) CD0327, "Quarter 3, RCRA Permit Class I Modification Notification Report," and (2) CD0330, Annual Underground Storage Tank Master License Renewal."

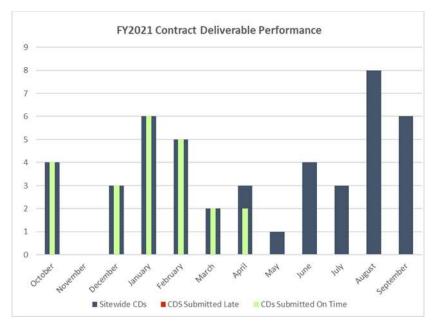


Figure A-2. Environmental CD Performance

• Environmental Ecological Monitoring and Compliance (EMC) program received ten new requests for Ecological Compliance Reviews during the month of March. EMC staff performed two surveys as part of the Ecological Compliance Review process. EMC staff



issued Ecological Clearance Notifications to Proceed for five projects and issued No Review Required (NRR) emails for four projects during the month of March.

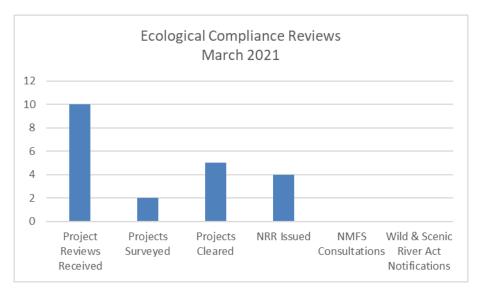


Figure A-3. Ecological Compliance Reviews

- Environmental supported an Ecology RCRA inspection of the HMIS managed CCRC. The
 inspectors entered and inspected the CCRC, documenting the information on every waste
 container located within the facility. The HMIS Environmental Compliance Officer
 satisfactorily answered all of Ecology's questions. At the end of the inspection, the lead
 Ecology inspector said they had no issues or concerns.
- Environmental Cultural and Historic Resource Protection (CHRP) program received four new requests for National Historic Preservation Act (NHPA) Section 106 Project Reviews during the month of March. CHRP staff conducted one survey as part of the Section 106 process. On behalf of DOE-RL, CHRP staff reviewed four cultural resources document for professional standards, quality, and compliance with NHPA Section 106 requirements. CHRP issued Cultural Clearance Notifications to proceed for one project after completing all Section 106 requirements. Currently, DOE-RL is consulting on one MOA with the Washington State Historic Preservation Office (SHPO) and area Tribes.



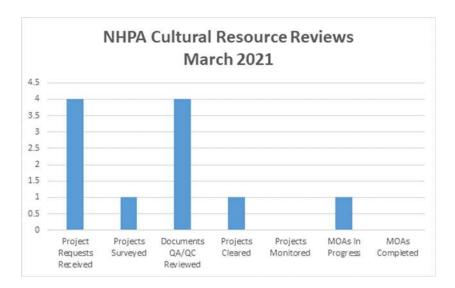


Figure A-4. NHPA Cultural Resource Reviews

• Environmental continued to seek projects that increase energy efficiency and qualify for utility incentives from the Bonneville Power Administration.

Table A-3. Bonneville Power Administration Utility Incentives

Metric FY2020-21	Amount
FY 2020-2021 BPA Incentive Budget	\$639,212
Percentage of BPA Budget used	15.2%
Total Amount of incentives received	\$97,206.52
Breakdown by Contractor	
MSA Incentives Earned 10/1/19 – 1/24/21	\$7,750.84
HMIS Incentives Earned 1/25/21 to present	\$0.00
CHPRC Incentives Earned 10/1/19 – 1/24/21	\$17,268.67
CPCco Incentives Earned to date	\$0.00
WRPS Incentives Earned to date	\$72,187.01

^{*}Note: Due to the transfer of Energy Efficiency Incentive funding from other utilities, the total amount of incentives may exceed the original established budget.

• Environmental staff placed road closure signs to protect known Ferruginous Hawk nest sites for the upcoming season. Ferruginous Hawks are especially sensitive to human disturbance and incursion into their nesting areas. On the Hanford Site, nesting Ferruginous Hawks are protected using Washington Department of Fish and Wildlife guidelines. Buffer zones of 1,000 meters (m) [3,281 feet (ft)] are established around active nests. Road closure signs are positioned in the roads where they intersect with the 1,000 m (3,281 ft) buffers. Nest areas



- are protected from all human disturbance within 250 m (820 ft) between March 1 and May 31, and within 1,000 m (3,281 ft) for prolonged (>0.5 hour) activities during the entire nesting and fledging season (March 1 to August 15).
- Environmental participated and presented at the virtual Waste Management Symposium on March 11, 2021, about adapting to remote Environmental Management System (EMS) implementation. The presentation discussed the virtual implementation and communication strategies used to promote environmental awareness and secure a successful, remote EMS recertification audit.
- Environmental provided support to the DOE Site Stewardship Division to prepare for a meeting between the DOE Field Office Manager and Bonneville Power Administration (BPA) to discuss options for moving forward with proposed modifications to the North Loop electrical transmission system (Project L-612). An environmental assessment (DOE/EA-2033) and finding of no significant impact were issued for the project in May 2018; however, the BPA did not approve of the estimated cost to implement proposed modifications (approximately \$90 million) forcing DOE to consider alternative options. The support included preparation of a table comparing eight alternatives, including a no action option. For each alternative, a description was provided along with estimated construction schedule, estimated outage period, estimated cost, pros, cons, and NEPA path forward to support DOE's meeting with the BPA to discuss the way forward.
- Environmental staff conducted ground squirrel (*Urocitellus townsendii*) monitoring to assess activity at twenty-three locations on DOE-RL managed lands of the Hanford Site where the species has been observed in the past. Following the protocol in the ground squirrel monitoring plan, crews evaluated the areas for active burrows and animals, and conducted radial surveys from the previous centroid of the established colony. Crews also searched a vineyard on the boundary of the Hanford Site where squirrels were previously observed. Townsend's ground squirrels are an important species that provide ecological functions such as serving as prey to many predators, shaping soil fertility and plant production through burrowing and feeding, and furnishing burrow habitats for other species. The species has been showing signs of precipitous decline in Washington State in recent years. The Washington Department of Fish and Wildlife (WDFW) lists the Townsend's ground squirrel as a "State Candidate". The Hanford Site surveys corroborate the severe decline of Townsend's ground squirrels across the state with only one of twenty-three sites showing any active burrows. Plans are being formulated to further understand the status and distribution of squirrels at the one remaining colony, and to consider a possible relocation effort.
- Environmental completed the ambient impact analysis for the Project L-888 Fire Station emergency stationary generator emissions of diesel engine exhaust particulate and nitrogen dioxide. The analysis was developed in consultation with Ecology to determine the preferred emissions inventory and modeling method for toxic air pollutant notice of construction (NOC) applications containing emission units with engines. The results are being analyzed by Ecology for concurrence on predicted emissions and source stack parameters for use in the Project L-888 NOC Application.



• HMIS has the responsibility to integrate, facilitate, and document regulatory agency inspections of DOE facilities on the Hanford Site for all Hanford Site contractors. Those responsibilities include providing support to DOE and Hanford Site contractors during regulatory agency inspections that occur on site and tracking those inspections in the Regulatory Agency Inspection Database (RAID). Below is a summary of the regulatory agency inspections that were supported by HMIS for March 2021.

Table A-4. Sitewide Inspection Status

			Sitew	ide Inspect	ion Sup	port for Mar	rch 2021
Company	Other	EPA	ECY	WDOH	DOE	Date	Subject/(Raid#)
HMIS	1		1			3/16/2021 3/23/2021	City of Richland Sewer Inspection of the 3709A (2021-016) Ecology RCRA Inspection of the CCRC (2021-017)
PNNL	1					3/16/2021	• City of Richland Sewer Inspection of 300 Area Facilities (2021-016)
WRPS			2			3/3/2021 3/25/2021	Ecology walk down of the Pipeline from WTP and AP Tank Farm (2021-014) Ecology RCRA Inspection of the DST System (2021-018)
CPCco	1		1	1		3/11/2021 3/16/2021 3/31/2021	WDOH Air Inspection of 400 Area Emission Units (2021-015) City of Richland Sewer Inspection of the 324 Facility (2021-016) Ecology RCRA Inspection of CWC and WRAP (2021-019)
JCI	1					3/16/2021	• City of Richland Sewer Inspection of 300 Area Boilers (2021-016)
TOTALS	4		4	1			

• Environmental was notified of a sewage release that occurred at the 2607-E11 Lift Station. An estimated 1,000 gallons of sewage was released to the ground (see below photo). The 2607-E11 Lift Station is a part of the 200 West Sewage Lagoon collection system and is covered by state waste discharge permit ST0045514. Notifications were made by the environmental single-point-of-contact to the Washington State Department of Health and the Washington State Department of Ecology. A written or electronic report is due to the regulatory agencies within five days of discovery per Permit Condition S3.F.c. The lift station has been removed from service until repairs are initiated.





- Under Resource Conservation and Recovery Act (RCRA) regulations, emergency response plans must be prepared for hazardous/dangerous waste treatment, storage, and disposal (TSD) activities. Emergency response plans typically address RCRA requirements as well as other non-RCRA requirements. The Department of Energy (DOE) and Washington River Protection Solutions (WRPS) recently revised portions of the 242-A Evaporator emergency response plan. The DOE and WRPS believed the changes were limited to the non-RCRA portions of the plan. The Department of Ecology (Ecology) issued a letter to the DOE asserting the changes applied RCRA enforceable portions of the plan. Environmental is assisting DOE in responding to the Ecology letter.
- HMIS coordinated and facilitated several meetings with the OHC safety and health
 professionals to review the DOE Hanford Workplace Safety Plan. The Hanford-specific plan
 was developed in response to DOE's Agency Plan and will require changes to Hanford's
 COVID safety protocols. The safety and health professionals met to coordinate and discuss
 necessary changes to company policies, procedures, and management directives to ensure
 consistent site-wide implementation should the new COVID safety protocols be
 implemented.
- HMIS personnel continued to attend and support the WRPS COVID working group meetings. These meetings are held with WRPS management and the HAMTC Safety-Reps.
- HMIS completed the 10 CFR 835, Occupational Radiation Protection Subpart J, Radiation Safety Training triennial assessment. The assessment resulted in two findings and thirteen opportunities for improvement.
- HMIS completed the annual report of Hanford personnel radiation doses to DOE in the Radiological Exposure Monitoring System.

Security & Emergency Services:

• HMIS Emergency Management and Preparedness (EMP) staff, in coordination with Hanford Fire Department (HFD) and Other Hanford Contractors (OHCs) (CPCco, WRPS) Emergency Preparedness staff facilitated the development of COVID-19 controls for drill and exercise



- response activities that necessitate responders to be in close proximity to others. Use of a shared control set helps ensure consistency in expectations between contractors and enhances the safe completion of drills/exercises.
- HMIS staff revised HMIS-PLN-EM-53188, Hanford Mission Integration Solutions
 Continuity of Operations Plan (COOP), and delivered it to DOE-RL for approval in
 accordance with DOE O 150.1A Continuity Programs. Delivery of the revised COOP
 completed a corrective action to align pandemic conditions with adverse impacts affecting
 HMIS's ability to sustain the Mission Essential Function and Essential Support Activities.
- HMIS EMP staff attended an Offsite Issues Meeting with OHCs and local community stakeholders. They presented a briefing on revisions to RLEP 3.8 Protective Actions and the reformatting of the Hanford Emergency Notification Form for communicating offsite protective actions for a Hanford Transportation emergency meeting "General Emergency" criteria.
- HMIS EMP staff provided the following support to OHCs:
 - o Hanford Incident Command System/Building Emergency Director Training to 13 students.
 - o Building Warden Training for 16 students.
 - o Supported 13 Hazardous Facility Emergency Response drills (CPCco-6, WRPS-1, HMIS-1, WTP-4, PNNL-1)
- HMIS Security and Hanford Patrol personnel successfully completed two Force-on-Force exercises. These exercises are performed to verify the effectiveness of the Protective Force and the ability to protect Hanford Site strategic assets. The exercises were conducted with no injuries and while adhering to all safety and social distancing requirements.
- HMIS Safeguards personnel submitted a revised Materials Control and Accountability Plan to DOE-RL for approval. The revisions included updates to reflect the HMIS and CPCco contract transitions.
- HMIS Information Security staff Continued Phase 3 of the classified holding reduction
 project review of classified holdings at the Records Holding Area. During March 90 boxes of
 records (approximately 270,000 pages) were reviewed and processed for
 classification/declassification. To date 244 of 268 total boxes have been reviewed. Due to
 delays caused by the partial stop-work, the project will continue through FY 2021.
- HMIS HFD personnel initiated preparations for the 2021 wildland fire season. All HFD
 personnel received wildland fire refresher training. Wildland Area Safety and Familiarization
 Assessments were initiated to ensure that all HFD emergency responders are familiar with all
 Hanford Site terrain, access routes, fuel loads, and hazards that could be encountered while
 engaging in wildland firefighting operations in order to respond to the complex tactical
 firefighting environment.
- HMIS HFD personnel from the Hanford Fire Marshal Office supported the Site Services and Fire System Maintenance organizations working on the Tank-Side Cesium Removal (TSCR) and L-905 projects. They provided technical expertise for the installation, construction acceptance testing (CAT) and operational acceptance testing (OAT) of Fire Alarm Control Units (FACUs) and Radio Fire Alarm Reporters (RFARs) for 506BA, MO-413, and 2751E.



They provided documentation review and support for the installation of the TSCR fire suppression system and development of the associated operating and PM procedures.

Information Management Services:

- IM Program Management
- For Fiscal Year 2021 to date, Site Forms has a total of 3,569 active Forms. As part of transition, the Site Forms team is working to update company branding on over 1,200 of the forms for HMIS and over 1,000 forms for CPCco.
- The Hanford Site Emergency Alerting System (HSEAS) Upgrade project Statement of Work (SOW) and Non-Compete Justification for the new software and services contract with Safer Services was completed for review. The SOW will include services for installation, training, and ongoing maintenance and support.
- WiMAX to WiFLEX Upgrade project team initiated conversations with Energy Northwest to discuss need for load balance study for Rattlesnake Mountain sector install.
- The Cloud Bridging Strategy Integrated Project Team (IPT) came up with a collaborative procedure and work flow which was presented to Department of Energy for review and approval. The proposed strategy is to get all Cloud Services Providers (CSP) into compliance within a year.
- HMIS hosted an architecture review of the Washington River Protection Service
 (WRPS), TankFarm Local Area Network (TFLAN) Industrial Control Network. Using
 industry powerhouse Dragos, the team performed an integrated workshop where Dragos
 assessed the technical and administrative elements of their network to assess cybersecurity
 health and determine areas for improvement.
- Apple released an emergency update to iPhone Operating System (iOS) 14.4.2 for all iOS devices to address a critical vulnerability. The mobile device team identified over 850 devices needing updates so HMIS communicated to users, marking 96% of users complete with 4% pending.
- Approximately 940 Windows servers have successfully had Operating System and application patching completed in March 2021.
- A bug in the Palo Alto firewall firmware caused a major HLAN outage on March 30, 2021. The HMIS network team was able to quickly identify the issue and bring HLAN back to normal state. The bug was verified with the Palo Alto vendor and a new firmware version was successfully implemented on the perimeter firewalls.
- The HMIS Cyber Security team is simultaneously executing a broad scope of work. Many accomplishments for the month of March 2021 included completion of the following:
 - o First quarter site wide phishing campaign and follow-up training
 - o Retirement of HISI 3774 Cyber Score Toolset
 - o Web application security scanning implemented to the production readiness process checks.



• Chief Information Office

- o Information Management Services has completed the initial update of 50% of Hanford's HMAPS sites. At the completion of this effort, the GeoCortex Essentials software layer will be removed from the HMAPS solution. This will result in a reduction of software footprint for the Hanford Site and provide a modern interactive mapping solution.
- o Information Management Services met with Environmental Field Support team members to complete the planning of a new Acquisition Tracts geospatial dataset. This dataset will allow for multi-user editing and introduce configuration control, as well as establish pedigree and positional confidence of the data.
- o The Information Management Product Management strategy was presented to HMIS and Hanford CIOs. Additionally, four initiatives (Electronic Health Record, Requirements Management, Hanford.gov migration, and Ticketing System) were established; each have broad reaching impact for the product management approach. The team is finalizing criteria for additional initiatives and establishing a process for appropriately routing resource alignment to efforts and align with Site IT governance & priority.

Workforce Solutions:

- On Wednesday, March 3 the Workforce Solutions Resources & Development department attended the Eastern Washington University (EWU) Virtual Spring Career Fair. The event was hosted by the campus's Career Services department and included local and non-local employers. HMIS company resources participated in tandem to increase awareness of future job opportunities, recruit for current job openings, and to expand the company's Co-Op Intern Program. The company's relationship with EWU continues to strengthen and the company's presence was well received.
- On Wednesday, March 3 the Workforce Solutions Resources & Development department partnered with WorkSource Columbia Basin to launch the 3rd job search development presentation (virtually) to participants. The content was well received by those in attendance. The workshop touched on insights and techniques associated with job search strategies and was modified slightly to address the challenges of job search strategies in a virtual environment. The workshop also provided some fundamental framework that will be infused in future modules. The company will continue to deliver the job search and career development workshops (virtually) over the next several months while honoring the company's commitment to community outreach. The virtual platform will afford community participants and stakeholders the opportunity to view content safely while participating in an engaging and interactive environment.
- On Tuesday March 9, the Workforce Solutions Resources & Development department partnered with WSU Tri-Cities, CBC, DOE, WorkSource Columbia Basin, and other Hanford contractors to participate in a recorded presentation prepared for veterans and veterans currently pursuing collegiate endeavors. The presentation spoke to job opportunities for veterans and will help viewers understand the correlation between skills obtained during military service and those required for current job opportunities. The presentation will be available for students to view online, and will be followed by one-on-one Q&A sessions scheduled for Wednesday, March 17. The 2-part event is part of the company's commitment



- to outreach and will simultaneously extend awareness of the HMIS Co-Op Intern program and other opportunities present on the Hanford Nuclear Reservation.
- On Tuesday, March 9 the Workforce Solutions Resources & Development department collaborated with representatives at WorkSource Columbia Basin to attend the annual Mid-Columbia job fair. Due to the pandemic, the career fair was hosted virtually. HMIS professionals have pivoted strategies and evolved recruiting methodologies while engaging in local and non-local recruiting events to meet resource challenges. Perpetual engagement in community job fairs is crucial to maintaining relationships with institutions that provide critical human resources needed to meet project objectives. Moreover, proactive community engagement strengthens our relationships with community stakeholders and the site's future workforce.
- On March 26, the Workforce Resources and Development department hosted the fifth job search development module in partnership with WorkSource Columbia Basin. This final module focused on resume development and included a Q&A session as well as handouts that were distributed to participants. Feedback from participants as well as our partner, WorkSource Columbia Basin was encouraging, uplifting, and well received. The job search development series has been an ongoing program that commenced at the beginning of 2020 and has witnessed increased participation and interest from local and non-local community members seeking employment or career development opportunities.
- In honoring its commitment to expansion of inclusion and outreach, the department's partnership with WorkSource will also incorporate 1 on 1 coaching/interview sessions for unemployed individuals participating in worker retraining programs offered through the state. The program is part of the company's commitment to cultivating partnerships with community institutions and stakeholders to improve awareness of employment opportunities on the Hanford site.

Hanford Workforce Engagement Center

Since March 2020, COVID has created consistent hurdles for the Hanford site. The Hanford Workforce Engagement Center (HWEC), even with COVID restrictions/social distancing, has continued assisting current workers, formers workers, and family members of those workers. The HWEC has adapted its services and access to meet the needs of most parties needing assistance. The Center is utilizing phone conferencing more often, yet continue to be available in person for individuals with time sensitive issues or concerns. COVID restrictions to this day are minimizing in-person services, but using current COVID guidelines for safe interaction, HWEC stats show continued interface.



Table A-5. Hanford Workforce Engagement Center Events – March 2021

Event	Total
Phone calls	133
Walk-ins	16
E-mails	73
Scheduled Appointments	5
Outreach	5

Rocky Flats Legacy Benefits Plan

On March 31, 2021, Hanford Mission Integration Solutions, with the assistance of Morneau Shepell and Optum, provided the Medicare Part B reimbursements for eligible Rocky Flats participants. To be eligible, Rocky Flats participants must be at least age 65, enrolled in a Medicare Supplemental plan through an approved exchange plan or Tricare, and have submitted their Medicare Part B statement from Social Security to Morneau Shepell as documentation of their monthly premium payment. 1,803 participants successfully met these requirements and received the first quarter, 2021 quarterly deposit into their individual Retiree Reimbursement Account. A participant cannot receive reimbursement for more than the 2021 standard Medicare Part B premium rate of \$148.50 a month. Therefore, the maximum quarterly reimbursement amount an eligible participant can receive is \$445.50.

Mound Legacy Benefits Plan

On March 29, 2021, the plan year 2019 Retiree Drug Subsidy (RDS) Reconciled Payment Request was finalized and submitted to the Centers for Medicare and Medicaid Services (CMS). The Retiree Drug Subsidy Program is a program offered by the Centers for Medicare & Medicaid Services to reimburse health plan sponsors for a portion of their eligible expenses for retiree prescription drug benefits. This enables Plan Sponsors to continue providing drug coverage to their Medicare-eligible retirees at a lower cost.

Upcoming Events

April 21, 2021 - The Second Quarter, 2021 Fernald Benefits Committee meeting will be held.

April 22-23, 2021 – Hanford Workforce Engagement Center representatives will attend a virtual Department of Labor Advisory Board meeting covering Part E of the Energy Employees Occupational Illness Compensation Program Act (EEOICPA).



Engineering, Technology & Projects:

- Engineering
 - o Engineering continued planning activities associated with the performance of an Analysis of Alternatives (AoA) associated with Project L-612. The AoA will provide additional detail to the preliminary options to include more refined estimates of cost and schedule to allow for more informed decision making. Planning for this will continue into April.
 - o Engineering presented to both DOE representatives and the Contractor Interface Board the recommended resolution path for addressing future compliance with NFPA-13 return bends requirements for installed building fire suppression systems when Projects L-781 and L-826 have been commissioned to upgrade the Site's raw water infrastructure. Formal correspondence on this topic will be transmitted to DOE in April.
 - o Engineering initiated activities to assess the available alternatives to upgrade the heating system supporting the 300 Area fire station. Work will continue in April to document the options and make a path forward decision.
- Technology & Enterprise Architecture
 - o IT Capital Planning and Investment Control (CPIC)
 - Submitted March monthly data into eFolio for Capital Planning Investment Control (CPIC) Exhibits for IT investments. This fulfills Contract Deliverable CD0066 1st Monthly CPIC Exhibit 53 and Exhibit 300 for IT Investments.
 - o ++++Data Management Program Plan
 - Developing the Data Management Plan in accordance with the Contract Deliverable (CD0068 Comprehensive Data Management Plan)
 - PM continues interviews with stakeholders and subject matter experts
 - o Enterprise Architect (EA) Program Plan
 - Drafting EA program plan in accordance with Contract Deliverable CD0069 Enterprise Architecture Management Plan
 - Collaborating with DOE HQ on Enterprise Architecture and supporting headquarter initiatives. Supported a DOE EM Advisory Group data call for potential EM funded projects.
 - o Enterprise Architecture (EA) Repository
 - Started acquisition process for subcontracting an Abacus (EA Repository Application) subject matter expert to maintain and grow the usage of the product.
 - o Buyer Technical Representatives
 - Successfully trained and qualified three people to support the BTR role for subcontracts.

2.0 MAJOR ISSUES

Nothing to report.



3.0 PROGRAM RISK ASSESSMENT

The HMIS program risk assessments are outlined in the following subsections.

3.1 HMIS I&SS Mission Key Risks

- BCRs: No BCRs were processed in March that impact the project's MR or SM profile.
- Risk Analysis: No risk analysis conducted in March.
- Current Risk Posture:

Table A-6. I&SS Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	6	0	1	0	33
March	0	6	0	0	0	33

Table A-7. I&SS Key Risks

	Unmitigated Risk Impacts	Comments Comments										
	Ommugated Risk impacts	Month	Trend	Comments								
	EU- Mission Risks											
•	ajor changes to the program monthly stopli	ight chart:										
No major changes t	to the Stoplight Charts in March.											
	Realized Risk	KS (Risks tl	nat are cur	rently impacting project cost/schedule)								
No Realized Risks	in March.											
	Critical Risks (Severe impact to ult	imate goals	s/objective	es. Enforceable or in centivized milestone completion miss	ed.)							
No Critical Risks in	n March.											
	High Risk Threat	Value (Re	coverable	slip to enforceable or incentivized milestone)								
EU-0003-T: Substation Transformer	EU-0003-T: If any of the four substation transformers fails, OHC operations may be impacted,			Risk Trigger: Degradation of transformers lead to transformer								
Failure	and additional costs may be incurred. Risk Handling Strategy : Mitigate				Mitigation Action(s)	FC Date	%					
1 unuic	Msk Handing Strategy. Wildgate								Repair 451B transformer.	TBD	0	
Legacy Risk#:	Probability : Unlikely (10%)			Plan and perform preventative and corrective maintenance	Ongoing	N/A						
1200 & PWEU-	Worst Case Impacts: \$6,000K, 0 Days			Replace transformers when warranted.	Ongoing	N/A						
0003-T				Conduct system prioritization evaluation	TBD	0						
				Mitigation Action Assessment: No major changes in the month of March. A9 substation continues to be monitored with no indications of 451B Transformer LTC leak has been stopped, re-draffing state effort. Repairs forecasted to start in July.	*							



		Assess	sment	a				
	Unmitigated Risk Impacts	Month	Trend	Comments				
			WSU- M	lission Risks				
	jor changes to the program monthly stoplig	ght chart:						
No major changes in		a (D' 1 41	,	4				
No Realized Risks in		.S (Risks th	at are cur	rently impacting project cost/schedule)				
No Realized Risks II		mate goals/	obiective	es. Enforceable or incentivized milestone completion missed.	.)			
WSU-0006-T: 283W Water	If the 283W Water Treatment Facility cannot produce enough potable water for			Risk Trigger: 283W WTF cannot produce enough potable water		d Site.		
Treatment Facility	the Hanford Site because of the			Mitigation Action(s)	FC Date	%		
Water Production limitation	1,500gpm permit limitations, then potable water production demands will not be met, causing impacts to cleanup			Completion of L-897 200 Area Water Treatment Plant (DFLAW Essential)	FY2022	30		
Legacy Risk#: 1526 & PWWSU- 0006-T	schedules or shutdown of certain Hanford site operations. Risk Handling Strategy: Avoid Probability: Likely (80%) Worst Case Impacts: \$0K, 0 Days		1	Mitigation Action Assessment: Project L-897, Central Plateau Water Treatment Plant (DFLAW Essential), is schedule for completion FY2022. This will reduce the likelihood of not being able to produce enough potable water for the Hanford Site. If DFLAW commissioning activities commence prior to the commissioning of the new CPWTF, then operational controls of the distribution of sanitary water from the existing 283W clearwells will be put into place, including: • Limiting flow out of the clearwell to 1,200gpm • Utilizing available storage reservoirs at 283E, 283EA and 283WA to supplement sanitary water peak demands • Administratively control or limit non-essential potable water demands such as irrigation water supply These activities are discussed in HNF-64684, 200W Sanitary Water System Capacity Evaluation. In March, Technical Evaluation of Membrane vendor proposal was completed and awaiting vendor/HMIS Legal to complete negotiations of Terms and Conditions. Construction subcontractor continued development of premobilization submittals and RCIs, continued material and long lead procurements, and HMIS continued to review and disposition of subcontractor submittals and RCIs. A downward trend indicates a decrease in confidence as a result of delays in membran				
WSU-0020-T: TEDF Failure impacts discharge of waste water	If HMIS Water Utilities (WU) is unable to discharge wastewater from the 283W Water Treatment Facility (WTF) or new Central Plateau Water Treatment Facility			Risk Trigger: WU is unable to discharge wastewater due to an exTEDF. Mitigation Action(s)	rtended failure	of		
D: 1 #	(CPWTF) due to an extended failure of the TEDF discharge line or lift station,			Ongoing communication with WRPS during their performance of	Ongoing	NA		
Legacy Risk#: 3175 & PWWSU-	then the ability to produce potable water			emergency repairs to the lift station				
0020-T	for the Hanford Site will be impacted, causing potential site wide water			Use 3,000 gallon water trucks to haul wastewater to TEDF	As Needed	NA		
	outages, impacting cleanup operations and fire suppression requirements for the Hanford Site. Risk Handling Strategy: Accept Probability: Somewhat Likely (50%) Worst Case Impacts: \$15,000K, 0 Days			Mitigation Action Assessment: No major changes in the month of March. Rely on WRPS to perform emergency repairs of the lift station in Ongoing discussions with DOE-RL to implement an emergency pusing 3,000 gallon water trucks to haul wastewater to TEDF. The current analysis recognizes there are up to five days of waste capabilities before needing to use water trucks or find an alternative wastewater diversion.	vater holding	includes		



		Asses	sment						
	Unmitigated Risk Impacts	Month	Trend	Comments					
		Wionth		lission Risks					
WSU-0021-T: Water Line Failure under TSCR Pad	If the 12" raw water line running under the proposed Tank Side Cesium Removal (TSCR) pad fails due to increased heavy		W30-1V	Risk Trigger: The raw water line located under the proposed TSC increased heavy traffic.	'R pad fails d	ue to			
	traffic, then looped raw water supply to			Mitigation Action(s)	FC Date	%			
Legacy Risk #: 3176 & PWWSU- 0021-T	the 200E tank farms (TF) and fire suppression systems will be impacted for extended periods of time, causing operations to enter into Limited		1	Install a new raw water line routed around the proposed location of TSCR and associated waste transfer lines or paths of heavy equipment travel. (L-928)	FY2023	0			
	Condition of Operations (LCOs). Risk Handling Strategy : Avoid			PerformERMA corrective maintenance waterlinerepairs while management exploits scheduling/personnel efficiencies where able.	Ongoing	NA			
	Probability: Likely (75%) Worst Case Impacts: \$750K, 0 Days			Mitigation Action Assessment: No major changes in the month of March. Project L-928, Re-Route 12" Raw Water Line Near 241AP Farm (Theority), has a completed draft SOW and initiated review. Planning complete 07/2021. This will avoid a potential raw water line break. TSCR pad operational date is forecasted for September 2021 increase a water line failure.	g is forecaste	d to be			
	High Risk Threat V	alue (Rec	coverable	e slip to enforceable or incentivized milestone)					
WSU-0016-T: PFP Contamination	If Plutonium Finishing Plant (PFP) radiological contamination reaches the 283W Water Treatment Facility, water			Risk Trigger: During PFP demolition, PFP radiological contamina 283W WTF prompting water supply shutdown to 200W and 200E		the			
Reaches 283W Water Treatment	purveyance abilities to 200W Area will be impacted resulting in sanitary and raw				Mitigation Action(s)	FC Date	%		
Facility	water supply shutdowns to 200W and			No mitigation actions planned at this time.	N/A	N/A			
Legacy Risk#: 1955 & PWWSU- 0016-T	200E Area buildings. Risk #: 955 & PWWSU-			Mitigation Action Assessment: No major changes in the month of March. No mitigation actions are currently identified. Risk will continue to be monitored throughout the remainder of the PFP mission. CHPRC is performing D&D activity for PFP project with a forecasted completion of FY2021. Resumption of 236-Z demolition assumed to be April.					
	Unmitigated Risk Impacts	Asses:	sment Trend	Comments					
		William		Mission Risks					
Explanation of ma	jor changes to the program monthly stoplig	ght chart:	1/11/11	IDDIOI RIDE					
No major changes in									
		s (Risks th	at are cu	rrently impacting project cost/schedule)					
No Realized Risks in		. 1	/ 1 : . :						
100 0001 T	If sitewide roof and HVAC units	mate goals	/objectiv	es. Enforceable or incentivized milestone completion missed.)					
MMP-0001-T: Roof and HVAC	continue to operate in a state of			Risk Trigger: HVAC units fail before being replaced.					
Operating in	degradation because they are currently			Mitigation Action(s)	FC Date	%			
Degraded State	operating past their 20-year design life, then further deterioration will continue at			Replace end of design life roof. Project L-796	FY2021	0			
F	an increasing rate resulting in impacts to			Replace end of design life roof. Project L-914	FY2022	0			
Legacy Risk#: 2073 & RES-	mission critical support functions and		4	Replace end of design life HVAC units. Project L-915	FY2022	0			
0002-T	poor occupant working conditions. Risk Handling Strategy : Avoid			Perform routine inspections and maintenance, including minor repairs as needed and as able.	Ongoing	NA			
	Probability: Somewhat Likely (70%) Worst Case Impacts: \$15,000K, 0 days			Mitigation Action Assessment: No major changes in the month of March. Projects L-796, L-914, and L-915 are scheduled to replaced roofs a completion of the projects will reduce the likelihood of roof leaks.					



	Unmitigated Risk Impacts	Assessment		Comments					
		Month	Trend	Comments					
	WSU- Mission Risks								
	High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)								
No High Risks in M	arch.								

3.2 HMIS I&IS Mission Key Risks

- BCRs: No BCRs were processed in March that impact the project's MR or SM profile.
- **Risk Analysis:** No risk analysis conducted in March.
- Current Risk Posture:

Table A-8. I&IS Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	3	0	0	0	13
March	0	3	0	0	0	13

Table A-9. I&IS Key Risks

	II	Asses	sment	C							
	Unmitigated Risk Impacts	Month	Trend	Comments							
	I&IS- Mission Risks										
Explanation of ma	jor changes to the program monthly stopli	ght chart:									
No major changes to	the Stoplight Charts in March.										
	Realized Ris	ks (Risks	hat are cu	arrently impacting project cost/schedule)							
No Realized Risks in	n March.										
	Critical Risks (Severe impact to ulti	imate goals	objective/	es. Enforceable or incentivized milestone completion missed.)	1						
FLT-0007-O: New Fleet Facility risk avoidance	If HMIS is budgeted and approved to build a new Fleet facility, then risks associated with maintaining and			Risk Trigger: A new fleet shop complex is designed and construct new fleet shop complex will mitigate four existing risks.	ed. Operation	ns at the					
	operating the current 2711E Fleet Equipment Maintenance Shop can be			Mitigation Action(s)	FC Date	%					
Legacy Risk#: 1747 and SSIM-	closed resulting in greatly reduced risk exposure and higher level of work		1	Complete a Fleet Services Facility Master Plan to determine the long term goal of the fleet program	Complete	100					
0013O	efficiency Risk Handling Strategy: Exploit			Identify a facility design that accommodates all electrical and safety needs for long-term fleet service's needs (L-907).	FY2022	0					
	Probability: Likely (75%)			Complete project L-908, Auto/Truck Shop and Storage, based on L-907 design.	FY2024	0					
	Worst Case Impacts: \$0, 0 days			Complete project L-909, Heavy Equipment Shop and Storage based on L-907 design.	FY2025	0					
				Mitigation Action Assessment: No major changes in the month of March. Project L-907 will design the fleet shop complex and current project will see the construction of the fleet shop complex; exploiting this contract awarded 1/25/2021. 30% design package is due 5/10/2021.	opportunity.						



	Ilanidia da Il Diala Irana da	Asses	sment	C		
	Unmitigated Risk Impacts	Month	Trend	Comments		
			I&IS- M	ission Risks		
	High Risk Threat	Value (1	Recoverat	ole slip to enforceable or incentivized milestone)		
FLT-0006-T: Leak detection failure at fuel station leads to environmental impacts. Legacy Risk#: 1783 & SSIM- 0008-T	If leak detection equipment is no longer serviceable due to system degradation, then petroleum, oil and lubricant (POL) leaks into the soil could occur without HMIS knowledge potentially impacting ground soil and surrounding environment. Risk Handling Strategy: Avoid Probability: Somewhat Likely (33%) Worst Case Impacts: \$70,000, 0 days		*	Risk Trigger: Leak detection equipment fails from age, resulting lubricant (POL) into the soil. Mitigation Action(s) Replace fuel station with project L-923, Replace 200E Area Fuel Station. Mitigation Action Assessment: No major changes in the month of March. Mitigation action in place to avoid the leak detection equipment fair completing reliability project L-923, Replace 200E Area Fuel Stati FY20 RPIP for FY26.	FC Date FY2026	% 0
RDS-0002-T: 2S and 11A Risk of Failure Legacy Risk #: 1832 & PWRDS- 0002-T	If routes 2S and 11A remain at risk of failure, then there is a potential loss of construction truck ingress/egress and alternate site evacuation route. Risk Handling Strategy: Mitigate Probability: Likely (90%) Worst Case Impacts: \$13,473K, 0 Days		*	Risk Trigger: Age and past weather conditions have led to continuous. Continued degradation and future demand future traffic need would lead to risk being realized. Mitigation Action(s) Conduct 2S/4S road study. Complete Roads Master Plan that provides a basis of when these particular routes are planned to be addressed beyond maintenance activities. Increase/accelerate maintenance on roads. (Crack seal, pothole repairs, shoulder repairs, etc.) Mitigation Action Assessment: No major changes in the month of March. Road study recommended that the roads should be in 2-lane configuratement submitted for Reliability Project – L-941. Road projects by DOE and identified by Reliability Project Task Order. Roads M now a contract deliverable (CD-0013) actively being revised to me	FC Date Complete FY2022 Ongoing guration. Sco	% 100 10 NA
	UnassignedRisl	ks (Pendi	ng owne	rship of identified risks/opportunities)		
No Unassigned Risk	ts in March.					



Comments

3.3 HMIS MA Mission Key Risks

- BCRs: No BCRs were processed in March that impact the project's MR or SM profile.
- Risk Analysis: No risk analysis conducted in March.
- Current Risk Posture:

Unmitigated Risk Impacts

Table A-10. MA Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	1	0	0	1	18
March	0	1	0	0	1	18

Table A-11. MA Key Risks

Assessment

	Cimingued Hisk impacts	Month	Trend			
		MISSIO	N ASSUR	ANCE- Mission Risks		
Explanation of ma	ajor changes to the program monthly stopli	ght chart:				
No major changes t	to the Stoplight Charts in March.					
	RealizedRisk	S (Risks th	nat are cur	rently impacting project cost/schedule)		
No Realized Risks	in March.					
	Critical Risks (Severe impact to ulti	mate goals	s/objective	es. Enforceable or incentivized milestone completion missed.)	
No Critical Risks in		8	j	· · · · · · · · · · · · · · · · · · ·	/	
	High Risk Threat V	alue (Re	coverable	slip to enforceable or incentivized milestone)		
MA-0019-T: Building 6266 HVAC failure. Legacy Risk #:	If the 6266 Building HVAC system experiences a complete failure, then HMIS is at risk of operational degradation in providing radiological instrument calibration and dosimetry			Risk Trigger: The 6266 building is currently running on backup of the primary has failed. Every quarter, an outage of 2-3 days occurs resources or parts is encountered and an outage lasted longer than critical and force a move.	and if lack o	f
1856 & ESHQ-	services to the Hanford site.			Mitigation Action(s)	FC Date	%
0019-T	Risk Handling Strategy: Mitigate Probability: Likely (75%) Worst Case Impacts: \$1,461K, 0 Days		' '	Process dosimeters at 805 Goethals and PNNL as needed.	Ongoing	NA
				Complete construction phase of Project L-797, Key Facilities HVAC Replacements.	FY21	0
				Mitigation Action Assessment: No major changes in the month of March. Alternatives analysis conducted; awaiting prospective bids from comproject is awarded to replace the HVAC system. Bids are schedule the end of summer 2021 and the project is scheduled for 2021. So be processed at 805 Goethals and PNNL to provide equipment caling those alternatives are highly inefficient.	d to be compl ne dosimeters	leted by could
	Unassigned Ris	ks (Pendi	ing owner	rship of identified risks/opportunities)		
MA-0005-T: Unreadable Records from Radiological Exposure Legacy Risk #: 1465 & ESHQ- 0005-T	If Radiological Exposure records become a requests. The maintenance of these records Radiological record retention is a requirem HMIS Comment: No major changes in Ma	inreadable, is also a reent of 10 C	then HMIS gulatory red FR 830 & 8 t handling of	would be unable to provide these records in support of EEOICP/F C quirement and the inability to sustain them is a direct breach of a fed-	eral requiremondation. Digiti	ent. zation



Comments

3.4 HMIS SES Mission Key Risks

- BCRs: No BCRs were processed in March that impact the project's MR or SM profile.
- Risk Analysis: No risk analysis conducted in March.
- Current Risk Posture:

Unmitigated Risk Impacts

Table A-12. SES Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	4	0	0	0	18
March	0	4	0	0	0	18

Table A-13. SES Key Risks

Assessment

Month Trend

	SES - Mission Risks									
Explanation of major changes to the program monthly stoplight chart:										
No major changes to the Stoplight Charts in March.										
	Realized Risks (Risks that are currently impacting project cost/schedule)									
No Realized Risks in										
	Critical Risks (Severe impact to ulti	mate goals/objectiv	es. Enforceable or incentivized milestone completion missed.))						
SES-0012-T: Fire, Medical, Security, and	If Emergency Radios and supporting site infrastructures fail because they're outdated and no longer supported for repair by the manufacturer, then Fire,		Risk Trigger : Hardware/software that is no longer supported fails repaired by the manufacturer.							
Emergency communication	Medical, Security, and Emergency		Mitigation Action(s)	FC Date	%					
could fail if emergency radios	communication will be impacted, delaying their response to the Hanford		Replace hand-held radios for Fire, Patrol, and Emergency Management (Project L919-7040).	07/2021	0					
and supporting site	site.		Replace repeaters and site infrastructure that supports the Hanford site emergency radio system (Project L919-7140).	08/2021	0					
Legacy Risk#:	Risk Handling Strategy: Avoid		Mitigation Action Assessment:							
1959 & ES-0012-	D. L. 1:1:4 C 1:11 (400/)		No major changes in the month of March.							
1959 & ES-0012- T	Probability: Somewhat likely (40%) Worst Case Impacts: \$0, 0 Days		Project L-919 will avoid this risk. Questions from contracts regardi prompted a request for a revised proposal answering those question expected in the June 2020 reporting period. The questions raised du ultimately led to the decision to not award the contract under the cu vendor, Wildflower, will not be used for the procurement unless preservices can be verified. The SOW was split in two phases: one for services & one for installation of radios and radio system core (con The services procurement contract was awarded 9/30/2020. Construction was approved and posted. The award date of the construction contract approvals for job walk and HMIS template transition. Upon detaile SOW, it was determined that design was not to the point that would Fixed Price bid and the RFP was canceled. RFP will be re-issued for development of the design and Bill of Materials. Task/activity is not will not lead to overall schedule slip. The delay in awarding contract the hand-held replacement radio activity to August 2021. Materials arrive in May 2021.	us. Award wa uring the revi urent requisi icing for labe design/confi struction cort uction contra act has been act determinal d review of t d support a F ollowing furt of on critical	iew tion. The or and guration ttract). act SOW delayed tion, the irrm her path and ed back					



	77 10 1 1 1 1 1 1 1	Assess	ment _			
	Unmitigated Risk Impacts	Month	Trend	Comments		
		1/1011111		l ission Risks		
SESHFES-0011- T: HFD responses	T: (HFD) emergency response to the PFP radiological buffer area for a fire, hazmat or medical event there may be a significant potential for HFD material as			Risk Trigger : Emergency response to PFP radiological buffer area medical event.	_	
	,			Mitigation Action(s)	FC Date	%
contaminated	well as apparatus to be contaminated,		4	Develop strategies to minimize the opportunity to contaminate Emergency Services apparatus and equipment.	Complete	100
equipment and apparatus. Legacy Risk #: 1972 & ES-0014-T SES-0025-T: Response into a radio dead-zone. Legacy Risk #:	thereby losing that equipment and/or apparatus for use elsewhere on the Hanford site. Risk Handling Strategy: Accept Probability: Unlikely (25%) Worst Case Impacts: \$3,000K, 0 Days If Emergency Response Personnel cannot communicate with each other or a controlling agency because radio communication is unavailable, then response into or operating in an unknown			Mitigation Action Assessment: No major changes in the month of March. Response strategies have been developed to minimize contamination. Services apparatus and equipment. As PFP progress continues, the contamination will slowly reduce. This risk will continue to be mo progresses through its mission. Resumption of 236-Z demolition at 2021. Risk Trigger: Emergency response to dead-zone or signal shadow responders lose radio communication. Mitigation Action(s) Install signal repeaters at identified dead-zones and signal shadows on	probability on itored as PF ssumed to be	of PP April
environment will potentially impact the health and safety of those responders.			site.			
SESHFES-0006- T:	Probability: Likely (75%) Worst Case Impacts: \$0, 0 Days High Risk Threat V If a Hanford fire station (100/200/300 areas) becomes uninhabitable for fire and	7alue (Reco	overable	No major changes in the month of March. Avoid. Install signal repeaters at identified dead-zones and signal s Signal repeaters would need to be established as permanent equipn all-weather environments and available 24/7. Signal repeaters mus existing and anticipated equipment. A work order to install the repubut there is no forecast completion date at this time. slip to enforceable or incentivized milestone) Risk Trigger: Catastrophic failure of utilities or structure of one of Hanford fire stations.	nent that is re t be compatib eaters is in pr	liable in ble with rocess,
Catastrophic	medical responders due to a catastrophic			Thanke are stations.		
failure of utilities	failure of utilities or structure then			Mitigation Action(s)	FC Date	%
or structure leaves a Hanford fire	responders and apparatus will need to be relocated increasing response times to		4	Electrical systems have been updated once, backup generators installed to support facilities.	Complete	100
station	incidents.		-		0 .	NT A
uninhabitable.	Risk Handling Strategy: Mitigate			Supplemental window air conditioners are used. Complete project L-888 400 Area Fire Station	Ongoing 05/2023	NA 10
Legacy Risk#: 1727 & ES-0006- T	Probability: Unlikely (20%) Worst Case Impacts: \$20,000K, 0 Days			Mitigation Action Assessment: No major changes in the month of March. Several supplemental window air conditioners were installed at the in July. Power fluctuations in the 300 area fire station required comon internal electrical equipment in August 2020. Environmental comonitored at all three facilities. All three facilities are manned 24/7 with little modifications past that and construction, including 1960's commonly used building materis systems have been updated once, backup generators installed to su Supplemental window air conditioners are used and one roof was a Project L-888, 400 Area Fire Station will partially mitigate this risk start the construction phase Spring 2021. More project specific information within the L-888 stoplight.	rective maintensiderations neir original dals. Electrical pport facilitie epaired fall 2 k. Project L-8	enance are being lesign s. 2019.

Unassigned Risks (Pending ownership of identified risks/opportunities)

No Unassigned Risks in March.



3.5 HMIS IMS Mission Key Risks

- BCRs: No BCRs were processed in March that impact the project's MR or SM profile.
- Risk Analysis: No risk analysis conducted in March.
- Current Risk Posture:

Table A-14. IMS Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	9	0	0	0	12
March	0	9	0	0	0	17

Table A-15. IMS Key Risks

	Unmitigated Risk Impacts	Assessment		Comments			
	Ommugated Risk impacts	Month	Trend	Comments			
	•		IMS- Miss	sion Risks			
_	ajor changes to the program monthly stopli to the Stoplight Charts in March.	ght chart:					
	Realized Risk	s (Risks th	at are curre	ently impacting project cost/schedule)			
No Realized Risks	in March.						
	Critical Risks (Severe impact to ulti	imate goals	objectives/	. Enforceable or incentivized milestone completion missed.)			
IMS-0003-T: Unaware of Network	If HMIS is unaware of an ongoing intrusion into the network, due to an inability to detect the intruder, then a			Risk Trigger: During day to day operations, an intrusion to the net experienced.	work is		
Intrusion	significant information compromise will			Mitigation Action(s)	FC Date	%	
	occur. Risk Handling Strategy: Mitigate			Increase staffby 2 FTEs for incident response and analysis.	Complete	100	
Legacy Risk #: 1206 & InfoM-				Integrate network operations center with engineering and cyber security to form security operations center.	Complete	100	
0003-T	0003-T Probability: Somewhat Likely (50%) Worst Case Impacts: \$2.0M, 0 Days		4	Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA	
			' '	Incident detection and log correlation tools have been improved, activity ongoing.	Ongoing	NA	
				Review incident handling guidelines and implement appropriate recommendations.	Ongoing	NA	
				Develop incident scenarios and perform exercises regularly.	Ongoing	NA	
				Provide additional training on security tools to existing staff.	Ongoing	NA	
				Improved incident response and analysis capability.	Ongoing	NA	
				Use outside resources to expedite improvements.	Ongoing	NA	
				Implement XSOAR Automation Software	04/2021	98%	
				Mitigation Action Assessment: No major changes in the month of March. Internal process improvements continue to be conducted to improve alerting. In house training is ongoing to improve incident response Administrative controls are employed to prevent introduction of m network. In March, XSOAR is waiting on final SQA paperwork and approva production. Once SQA approval is received final procurement can implementation can occur. Forecasted deployment date is set for ea approvals needed.	and user awa alware into the ds to be put itake place an	areness. he into	



IMS-0011-T: Industrial Control System Breach.

Legacy Risk #: 1753 & InfoM-0011-T

If the Industrial Control System (ICS) is breached due to an external attack or through a user's inadvertent or intentional download of malicious software, then significant and potentially catastrophic (depending on the criticality of the ICS, such TFLAN) system failure or damage may occur, including (1) loss of availability of the ICS / loss of production processes; (2) data leakage / loss of sensitive information; (3) physical damage to facilities or critical infrastructure; (4) interference with safety systems; (5) deterioration of ICS process controls; and (6) loss of life.

Probability: Likely (75%)

Worst Case Impacts: \$2.0M, 0 Days

Risk Handling Strategy: Mitigate

Risk Trigger: During day to day operations, an intrusion to the ICS network is experienced.

Mitigation Action(s)	FC Date	%
Conduct needs assessments for critical ICS.	Complete	100
Conduct needs assessments for critical ICS.	Complete	100
Secure access to wired and wireless networks within the ICS environment.	CY2021	30
Implement ICS security procedures and governance.	CY2021	15
Perform STE on first candidate system.	11/2021	25
Implement comprehensive ICS change management.	06/2022	10
Disable use of portable media where possible.	Ongoing	NA
Implement procedures for approval of all portable devices prior to connection to the ICS network and components.	Ongoing	NA
Disallow Internet and remote accesses to the ICS environment.	Ongoing	NA

Mitigation Action Assessment:

No major changes in the month of March.

In efforts to prevent a breach of the Industrial Control System (ICS), the project has implemented ongoing mitigation actions. These actions are being executed in conjunction with a heightened overall awareness of cyber security practices.

High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)

IMS-0001-T: Malicious Software Network Breach Legacy Risk#: 1118 & InfoM-0001-T If the network is breached through a user inadvertently or intentionally downloading malicious software, then a significant outage or information compromise may occur.

Risk Handling Strategy: Mitigate

Probability: Unlikely (25%)

Worst Case Impacts: \$2.0M, 0 Days



Risk Trigger: During day to day operations, an intrusion resulting in malicious software downloading to the network is experienced resulting in cost impacts.

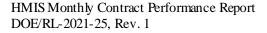
Mitigation Action(s)	FC Date	%
Replaced Palo Alto Traps with Palo Alto Cortex XDR.	Complete	100
Implement user behavior based anomaly detection. (Palo Alto Cortex XDR)	Complete	100
Project H-001, BMS Upgrade Project	FY2024	5
Implement application whitelisting, allowing execution of only approved applications.	DOE Approval Needed	0
Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA
Provide additional security training for users.	Ongoing	NA
Restrict use of removable storage devices.	Ongoing	NA

Mitigation Action Assessment:

No major changes in the month of March.

Existing administrative processes are employed to manage system changes. In house training and lessons learned are provided to improve secure coding practice. Contracts, MOUs and ISAs are maintained. Project H-001, BMS Upgrade Project, partially mitigates this risk by reducing the number of systems potentially breached.







IMS-0002-T: Application Software	If the network is breached due to the exploitation of vulnerabilities in installed application software, then a significant		Risk Trigger: During day to day operations, an intrusion due to ne vulnerabilities is experienced resulting in cost impacts.	twork	
Vulnerability	outage or information compromise may		Mitigation Action(s)	FC Date	%
Network Breach	occur. Risk Handling Strategy: Mitigate		Increase staff by 2 FTEs for incident response and analysis.	Complete	100
Legacy Risk#: 1121 & InfoM-			Integrate network operations center with engineering and cyber security to form security operations center.	Complete	100
0002-T	Probability: Unlikely (25%) Worst Case Impacts: \$2.0M, 0 Days		Improve internal controls, auditing, monitoring, and alerting capabilities.	Ongoing	NA
			Incident detection and log correlation tools have been improved, activity ongoing.	Ongoing	NA
			Review incident handling guidelines and implement appropriate recommendations.	Ongoing	NA
			Develop incident scenarios and perform exercises regularly.	Ongoing	NA
			Provide additional training on security tools to existing staff, ongoing.	Ongoing	NA
			Improved incident response and analysis capability, increase staff by 2 FTEs.	Ongoing	NA
			Use outside resources to expedite improvements.	Ongoing	NA
			Perform vulnerability management scanning and mitigation.	Ongoing	NA
			Implement XSOAR Automation Software	04/2021	98%
			Mitigation Action Assessment: No major changes in the month of March. Existing administrative processes are employed to manage system of training and lessons learned are provided to improve secure coding MOUs and ISAs are maintained. In March, XSOAR is waiting on final SQA paperwork and approval production. Once SQA approval is received final procurement can implementation can occur. Forecasted deployment date is set for ea approvals needed.	practice. Couls to be put itake place an	ontracts, into id

3.6 HMIS ET&P Mission Key Risks

- BCRs: No BCRs were processed in March that impact the project's MR or SM profile.
- Risk Analysis: No risk analysis conducted in March.
- Current Risk Posture:

Table A-16. ET&P Risk Posture

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	2	2
March	0	0	0	0	2	2

Table A-17. ET&P Key Risks

	Unmitigated Risk Impacts	Assessment		Comments					
	Ommugated Kisk impacts	Month Trend		Comments					
ET&PM- Mission Risks									
Explanation of maj	Explanation of major changes to the program monthly stoplight chart:								
No major changes to	No major changes to the Stoplight Charts in March.								
	Realized Risks (Risks that are currently impacting project cost/schedule)								
No Realized Risks in	No Realized Risks in March.								
	Critical Risks (Severe impact to ultimate goals/objectives. Enforceable or incentivized milestone completion missed.)								
No Critical Risks in March.									
	High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)								



	Unmitigated Risk Impacts	Asse	ssment	Comments							
	Ominugated Kisk impacts	Month	Trend	Comments							
	ET&PM- Mission Risks										
No High Risks in M	No High Risks in March.										
Unassigned Risks (Pending ownership of identified risks/opportunities)											
ETP-0009-T: NEPA screen determines reliability project must have an EA.				ent (EA) because the National Environmental Policy Act (NEPA) screen determines a and financial resources will be required for HMIS and DOE oversight of the project(s)							
Legacy Risk #: 1949 & SSIM- 0009-T											
ETP-0010-T: NEPA screen determines a reliability project requires an EIS.		loes not app		Statement (EIS) because the National Environmental Policy Act (NEPA) screen tional labor and financial resources will be required for HMIS and DOE oversight of the							
Legacy Risk#: 1950 & SSIM- 0010-T											

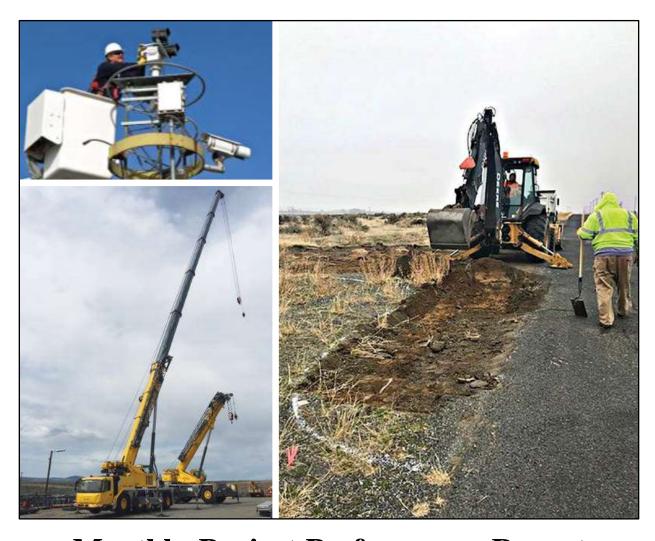
4.0 DOE ACTIONS/DECISIONS

Table A-18. DOE Actions/Decisions

Description	HMIS Delivery Date	Expected DOE-RL Due Date					
N/A							



Section B



Monthly Project Performance Report (CD0162)

SECTION B



1.0 RELIABILITY PROJECTS EXECUTIVE SUMMARY

2.0 SAFETY PERFORMANCE

Nothing to report in the month of March

3.0 KEY ACCOMPLISHMENTS

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Completed site clearing and grubbing, imported and placement of fill material, trenched and
 installed electrical conduit and conductor from pole to transformer vault, set concrete vault
 and transformer pad, installed parking lot base and top course materials, initiated and
 completed significant percentage of sanitary water line trenching and pipeline installation,
 and constructed electrical racks for the L-934, MSC Office Space Gap Reduction 200E.
- Performed walk-down with construction subcontractor, developed punch-list and completed
 1st of 3 punch-list items, "Remove Davit Crane Bases". Scheduled Lift Station MPZ circuit
 Labels to be replaced 03/31/21 and subcontractor working with manufacturer for resolution
 to Booster Station Heat Trace Fault (Warranty work) for the L-853, 200E Sewer Flow
 Equalization Facility.
- SCADA network testing phase completed. OAT for the network Complete. This prepares for the next stage of installation which is the substation Remote Terminal Unit installs which will start in A6 substation on 4/12/2021 for the L-801, Upgrade SCADA.
- Continued installation of wood poles, and performing trenching, and installation of handholds and conduit at the A8 Substation and performed sagging and clipping of new overhead conductors on 23rd Street and in vicinity of T Plant for the L-789, Priority T&D System Wood PP Test & Replace.
- HMIS Contract Awarded and A/E activities initiated in March for the L-907, Fleet Complex Site Development.



4.0 EARNED VALUE MANAGEMENT

Table B-1. Reliability Project Performance

	CURRENT PERIOD				FISCAL YEAR TO DATE				CUMULATIVE TO DATE					AT COMPLETION				
			ACTUAL				1.50	ACTUAL					ACTUAL					
	BUDGET	ED COST	COST		ARIANCE BUDGETED COS		ED COST	COST	VARIANCE		BUDGETED COST		COST	VARIANCE				
CLIN/PBS/WBS for March	BCWS	BCWP	ACWP	SCHEDULE	COST	BCWS	BCWP	ACWP	SCHEDULE	COST	BCWS	BCWP	ACWP	SCHEDULE	COST	BAC	EAC	VARIANCE
RL-0020 - Safeguards and Security																		
4001.07.06.01.01 - L-921, Telecom Hut at Met Tower	\$257	\$156	\$159	(\$101)	(\$4)	\$347	\$167	\$177	(\$180)	(\$10)	\$347	\$167	\$177	(\$180)	(\$10)	\$434	\$410	\$24
4001.07.06.01.02 - L-919, Emergency Radio Upgrade	\$10	\$4	\$91	(\$6)	(\$87)	\$20	\$11	\$103	(\$9)	(\$92)	\$20	\$11	\$103	(\$9)	(\$92)	\$1,417	\$2.013	(\$596)
Total RL-0020 - Safeguards and Security	\$266	\$159	\$250	(\$107)	(\$91)	\$367	\$178	\$280	(\$189)	(\$102)	\$367	\$178	\$280	(\$189)	(\$102)	\$1,851	\$2,424	(\$572)
RL-0201 - Hanford Site-Wide Services													•					
4001.07.01.01.01 - L-839. 12in Potable Water Loop-line	\$5	\$12	\$31	\$7	(\$20)	\$9	\$22	\$49	\$13	(\$26)	\$9	\$22	\$49	\$13	(\$26)	\$2,981	\$2,373	\$609
4001.07.01.01.02 - L-850, Replace 200W 1.1M-gal PW Tank	\$339	\$166	\$208	(\$173)	(\$42)	\$426	\$497	\$579	\$71	(\$82)	\$426	\$497	\$579	\$71	(\$82)	\$5,108	\$5,268	(\$160)
4001.07.01.01.03 - L-897, Central Plateau Water Treatment Facility	\$234	\$188	\$200	(\$45)	(\$12)	\$480	\$1.001	\$941	\$521	\$60	\$480	\$1.001	\$941	\$521	\$60	\$9,270	\$9,740	(\$471)
4001.07.01.01.04 - L-781, 181D Vertical Turbine Pumps	\$567	\$30	\$54	(\$538)	(\$25)	\$605	\$47	\$74	(\$558)	(\$27)	\$605	\$47	\$74	(\$558)	(\$27)	\$754	\$821	(\$67)
4001.07.01.01.05 - L-826. 181B Vertical Turbine Pumps	\$25	\$27	\$9	\$2	\$18	\$55	\$49	\$11	(\$5)	\$38	\$55	\$49	\$11	(\$5)	\$38	\$417	\$370	\$48
4001.07.01.01.06 - L-849, Replace 200E 1.1M-gal PW Tank	\$20	\$19	\$18	(\$1)	\$1	\$38	\$37	\$26	(\$1)	\$11	\$38	\$37	\$26	(\$1)	\$11	\$612	\$502	\$110
4001.07.01.01.07 - L-894, Raw Water Cross Connect Isolation 200E/W	\$12	\$6	\$8	(\$6)	(\$2)	\$21	\$14	\$11	(\$7)	\$3	\$21	\$14	\$11	(\$7)	\$3	\$149	\$169	(\$21)
4001.07.01.01.08 - L-895, Fire Protection Infrastructure for PRW	\$211	\$89	\$198	(\$122)	(\$110)	\$530	\$385	\$430	(\$145)	(\$45)	\$530	\$385	\$430	(\$145)	(\$45)	\$2,502	\$2,714	(\$211)
4001.07.01.01.09 - L-838, Water Feeds to 622R, 6608 & 200W Lagoons	\$0	\$0	\$0	\$0	ŚO	ŚO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$188	\$171	\$17
4001.07.02.01.01 - L-853, 200E Sewer Flow Equalization Facility	\$20	\$15	\$20	(\$6)	(\$5)	\$26	\$15	\$25	(\$12)	(\$10)	\$26	\$15	\$25	(\$12)	(\$10)	\$70	\$104	(\$34)
4001.07.02.01.02 - L-854, 200E Sewer Consolidations	\$14	\$12	\$4	(\$2)	\$8	\$18	\$12	\$4	(\$6)	\$8	\$18	\$12	\$4	(\$6)	\$8	\$63	\$56	\$7
4001.07.03.01.01 - L-801 Upgrade SCADA	\$159	\$84	\$65	(\$76)	\$19	\$170	\$84	\$79	(\$86)	\$5	\$170	\$84	\$79	(\$86)	\$5	\$1.675	\$1.682	(Ś7)
4001.07.03.01.02 - L-791, RFL Transfer Trip Upgrades	\$0	\$0	\$37	\$0	(\$37)	\$0	\$0	\$40	\$0	(\$40)	\$0	\$0	\$40	\$0	(\$40)	\$115	\$175	(\$60)
4001.07.03.01.03 - L-707, Advanced Electrical Metering	\$12	\$8	\$6	(\$3)	\$2	\$27	\$24	\$12	(\$3)	\$12	\$27	\$24	\$12	(\$3)	\$12	\$1.175	\$1.175	(\$0)
4001.07.03.01.04 - L-905, FARS & RFARS Replacement & Upgrade	\$43	\$43	\$32	\$0	\$11	\$172	\$95	\$45	(\$78)	\$50	\$172	\$95	\$45	(\$78)	\$50	\$183	\$129	\$54
4001.07.03.01.05 - L-911, Route 4S Lighting in 300 Area	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50	\$50	\$0
4001.07.03.01.06 - L-898, 100 Area Mission Crit Dist Feeders Repl	\$42	\$58	\$78	\$16	(\$20)	\$81	\$63	\$85	(\$19)	(\$23)	\$81	\$63	\$85	(\$19)	(\$23)	\$527	\$527	\$0
4001.07.03.02.01 - L-612. 230kV Trans Svs Recon & Sustainability	ŚO	\$0	(\$8)	\$0	\$8	\$23	\$23	\$23	ŚO	ŚO	\$23	\$23	\$23	\$0	\$0	\$23	\$323	(\$300)
4001.07.03.02.02 - L-861, Single-Circuit Distribution Pole Replace	\$72	\$57	\$56	(\$15)	\$2	\$147	\$143	\$90	(\$4)	\$52	\$147	\$143	\$90	(\$4)	\$52	\$486	\$473	\$13
4001.07.03.02.03 - L-789, Priorit T&D Sys Wood PP Test & Replace	\$972	\$313	\$287	(\$658)	\$26	\$2,188	\$712	\$550	(\$1,476)	\$162	\$2.188	\$712	\$550	(\$1,476)	\$162	\$2,651	\$3,665	(\$1.014)
4001.07.03.02.04 - L-720, Outdoor Lighting Reconfiguration & Repl	\$160	\$16	\$43	(\$144)	(\$27)	\$231	\$88	\$51	(\$143)	\$37	\$231	\$88	\$51	(\$143)	\$37	\$1.838	\$1.842	(\$3)
4001.07.04.02.01 - L-534, Overlay Interior 200 East Roads	\$9	\$7	\$10	(\$2)	(\$3)	\$15	\$14	\$27	(\$1)	(\$13)	\$15	\$14	\$27	(\$1)	(\$13)	\$2.091	\$2,099	(\$7)
4001.07.04.02.02 - L-603, Chip Seal Route 3N (Route 11A to Route 3)	\$9	\$8	\$15	(\$1)	(\$7)	\$16	\$16	\$32	(\$0)	(\$17)	\$16	\$16	\$32	(\$0)	(\$17)	\$1,371	\$1,382	(\$11)
4001.07.04.02.03 - L-883, Chip Seal Rt 10, SR-240 to WYE Barricade	\$9	\$7	\$13	(\$2)	(\$5)	\$15	\$15	\$24	\$0	(\$9)	\$15	\$15	\$24	\$0	(\$9)	\$1,799	\$1.813	(\$14)
4001.07.05.01.01 - L-888, 400 Area Fire Station	\$24	\$4	\$17	(\$20)	(\$13)	\$31	\$11	\$19	(\$20)	(\$9)	\$31	\$11	\$19	(\$20)	(\$9)	\$112	\$89	\$23
4001.07.05.01.02 - L-907, Fleet Complex Site Development	\$237	\$109	\$106	(\$128)	\$3	\$288	\$249	\$121	(\$38)	\$129	\$288	\$249	\$121	(\$38)	\$129	\$1.849	\$1.849	\$0
4001.07.05.01.03 - L-934, MSC Office Space Gap Reduction - 200E	\$345	\$626	\$631	\$282	(\$4)	\$451	\$705	\$694	\$254	\$11	\$451	\$705	\$694	\$254	\$11	\$2,032	\$2.031	\$1
4001.07.05.01.04 - L-933, Install Mobile Office Trailers - 200E	\$13	\$9	\$32	(\$3)	(\$23)	\$16	\$9	\$34	(\$7)	(\$25)	\$16	\$9	\$34	(\$7)	(\$25)	\$17	\$46	(\$29)
4001.07.05.02.01 - L-796, Key Facilities Roof Replacements	\$14	\$6	\$18	(\$8)	(\$12)	\$14	\$6	\$20	(\$8)	(\$14)	\$14	\$6	\$20	(\$8)	(\$14)	\$1,585	\$1.550	\$35
4001.07.06.01.01 - L-921. Telecom Hut at Met Tower	\$171	\$103	\$106	(\$67)	(\$3)	\$230	\$110	\$118	(\$120)	(\$8)	\$230	\$110	\$118	(\$120)	(\$8)	\$288	\$275	\$13
4001.07.06.01.02 - L-919, Emergency Radio Upgrade	\$13	\$5	\$61	(\$8)	(\$56)	\$35	\$20	\$72	(\$14)	(\$51)	\$35	\$20	\$72	(\$14)	(\$51)	\$966	\$1,345	(\$379)
4001.07.06.01.05 - L-819. High Capacity Fiber Optic (300 Area)	\$37	\$0	\$0	(\$37)	(\$0)	\$51	\$0	\$0	(\$51)	(\$0)	\$51	\$0	\$0	(\$51)	(\$0)	\$166	\$153	\$13
4001.07.06.02.04 - L-937, Gable East Footprint Reduction (Phase 1)	\$325	\$45	\$40	(\$280)	\$4	\$492	\$144	\$53	(\$348)	\$91	\$492	\$144	\$53	(\$348)	\$91	\$2,076	\$2,063	\$13
4001.07.97.01.01.01 - IRP - Out-Year Summary Level Planning Package	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$338,690	\$338,574	\$116
Total RL-0201 - Hanford Site-Wide Services	\$4,110	\$2,070	\$2,393	(\$2,040)	(\$322)	\$6,898	\$4,608	\$4,338	(\$2,290)	\$270	\$6,898	\$4,608	\$4,338	(\$2,290)	\$270	\$383,877	\$385,593	(\$1,716)
Grand Total	\$4,377	\$2,230	\$2,643	(\$2,147)	(\$413)	\$7,265	\$4,786	\$4,618	(\$2,479)	\$168	\$7,265	\$4,786	\$4,618	(\$2,479)	\$168	\$385,728	\$388,016	(\$2,288)
Note: \$ in thousands																		

Cost Variance Analysis: The CM unfavorable Cost Variance (CV) of (\$413K) is primarily due to 4001.07.01 Water Systems due to Project L-895 Fire Protection Infrastructure for PRW and 4001.07.06 Network and Telecom Systems due to Project L-919 Emergency Radio Upgrades.

Schedule Variance Analysis: The CM unfavorable Schedule Variance (SV) of (\$2,147K) is primarily in 4001.07.01 Water Systems due to Project L-781 181D Vertical Turbine Pumps, and 4001.07.03 Electrical Systems Project L-789, Priority T&D System Wood PP Test & Replace.

Variance at Completion: The unfavorable VAC of (\$2,288K) is primarily due to 4001.07.03 Electrical Systems Project L-89, Priority T&D System Wood PP Test & Replace.



5.0 BASELINE CHANGE REQUESTS

In March, HMIS approved and implemented the following two Reliability Project BCRs into the CPB:

- BCR-HMS-21-003 "Align Reliability Projects and Other CLIN 4 AUW Scope with FY21 Execution Strategy"
- BCR-HMS-21-004 "Change Responsible Org and Funding Type for H-Projects (H-002 & H-006)"

The below table reflects upcoming BCRs.

Table B-2. Upcoming Baseline Change Requests

Project	BCR Scope	Target Implementation Month	Summary of Change
		IVIOIILII	
L-894	PMB	Apr-21	Re-award construction contract, add premobilization submittals
L-895	PMB	Apr-21	Watts Change Order for RFAR
L-612	PMB	Apr-21	Add scope/schedule/budget for Condition Assessment & incorporate schedule impacts
L-720	РМВ	Apr-21	Align schedule to submitted contractor schedule
L-907	РМВ	Apr-21	Align schedule to submitted contractor schedule
L-898	PMB	Apr-21	Align to A/Edesign schedule
L-838	PMB	Apr-21	Initiate Conceptual Design phase
L-888/L-897	РМВ	Apr-21	Level 6 Budget Transfer to A lign GPP/Line Item Funding



6.0 FUNDS ANALYSIS

Table B-3. IIP Funding Status for Reliability Project

	HMIS FY 2021 Integrated Investment Portfolio Funding Status Reliability Project - March FY 2021 (\$000)													
CLIN	Task Order	Fund Source	* RL Expected Funding CBAG Rev 2	Total Outlook	Uncosted Balance	Carryover / Hold Backs	Unencum Balance							
CLIN 4	N/A	RL-0020 (Reliability Project)	2,034.0	1,946.0	88.0	88.0	-							
CLIN 4	N/A	RL-0201 (Reliability Project)	51,772.7	26,630.0	25,142.7	25,142.7	-							
CLIN 7	RPTO-008	RL-0020 (Reliability Project)	491.3	389.6	101.7	101.7	-							
CLIN 7	RPTO 002	RL-0201 (Reliability Project)	14,253.7	9,124.7	5,129.0	5,129.0	-							
CLIN 7	RPTO 005	RL-0201 (Reliability Project)	2,007.8	2,007.8	-		-							
CLIN 7	RPTO 006	RL-0201 (Reliability Project)	2,267.8	1,853.2	414.6	414.6	-							
CLIN 7	RPTO 007	RL-0201 (Reliability Project)	2,509.5	2,043.1	466.4	466.4	-							
CLIN 7	RPTO 008	RL-0201 (Reliability Project)	260.9	260.9	-		-							
CLIN 7	RPTO TBD	RL-0201 (Reliability Project)	1,048.0	1,048.0	-		-							
CLIN 7	Fee	RL-0201 (Reliability Project)	1,787.8	1,787.8			-							
		TOTAL	78,433.5	47,091.1	31,342.4	31,342.4								

^{*} RL Expected Funding thru CBAG Rev 2 - Pending update of Integrated Investment Portfolio

Uncosted Balance: The \$31.2M uncosted balance is primarily due to \$19.7K of funding held for future scope on Project L-612, 230kV Transmission System Reconditioning and Sustainability Repairs. Project L-897, Construction has had a delay in the Notice of Construction approval by Ecology. Contractual changes in CLIN assignments has caused delays. In addition, Contract Budget Update Guidance was received on March 9, 2021 that provided updated targeted funding. An updated Integrated Investment Portfolio (IIP) will be updated, scope re-aligned, and adjustments made for FY21.KEY MILESTONES

Table B-4. Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
RPTO-002	Task Order Submittal	4/21/21		4/21/21	0
RPTO-005	Task Order Submittal	3/23/21		3/23/21	0
RPTO-006	Task Order Submittal	4/7/21		4/7/21	0
RPTO-007	Task Order Submittal	4/21/21		4/21/21	0

^{**} Hold Backs (CLIN 4) includes \$19,689.4K for L-612, 230kV Transmission System Recon & Sustainability



7.0 MAJOR ISSUES

Nothing to report

8.0 DOE ACTIONS/DECISIONS

Nothing to report

9.0 GOVERNMENT FURNISHED SERVICES AND INFORMATION (GFS/I)

Nothing to report



10.0 RELIABILITY PROJECTS

10.1 L-839, 12 inch Potable Water Loop-line

Table B-5. L-839 Schedule and Cost Performance

	CUR	RENT M	ONTH			FISCAL	VEAR TO	DATE				С	ONTRACT	TO DAT	E		200	AT C	OMPLETI	ON
BCW5	BCWP	ACWP	5V	CV	BCWS	BCWP	ACWI	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	96	BAC	EAC	VAC
\$ 4.8	5 11.6	5 51.3	1 6.1	\$ (19.7)	5 9.4	5 22.2	5 48.6	\$ 12.8	\$ (26.4)	5 91	\$ 22.7	5 48.6	1 12.8	\$ (26.4)	134	0.46	1%	1 2,981.3	\$ 2,572.7	5 608.6

CM Schedule Variance:

CM Schedule Variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.1.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Construction Kickoff meeting held 2/23.
- Construction contractor continued work on initial submittals. As of 3/21, 12 of 18 received, 4 approved.

10.1.2 **90-Day Outlook**

Nothing to report.

10.1.3 **Risks/Issues/Opportunities**

No risk, issues, or opportunities were realized this period.



10.1.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-6. L-839 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	15
March	0	0	0	0	0	15

Table B-7. L-839 Key Risks

Assessment

	Unmitigated Risk Impacts	Month	Trend	Comments
		L-839,	, 12in Potab	le Water Loop-line
•	r changes to the program monthly stopligh			
3				d. There are no open key risks identified for project L-839.
Risks continue to be n	nonitored per HMIS-PLN-RIM-42375, Proje	ct Risk M	anagement 1	Plan.
	RealizedRisks	(Risks tl	hat are curi	rently impacting project cost/schedule)
No realized risks in M	Iarch.			
	Critical Risks (Severe impact to ultim	ate goals	s/objective	s. Enforceable or incentivized milestone completion missed.)
No critical risks identi	fied in March.			
	High Risk Threat Va	alue (Re	coverable	slip to enforceable or incentivized milestone)
No High risks identifie	ed in March.			
	UnassignedRisks	s (Pendi	ing owner	rship of identified risks/opportunities)
No unassigned risks ic	dentified in March.			

10.1.5 **Key Milestones**

Table B-8. L-839 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L839-4430	L-839, BEA Construction Contract	3/4/2021	2/2/2021		17
L839-4100	L-839, Contractor Mobilization	5/4/21		4/6/21	16
L839-4110	L-839, Construction Execution – FY21	9/30/21		9/1/21	16



10.1.6 **Baseline Performance**

The L-839 critical path to project complete starts with Initial Submittals, followed by Premobilization Construction Checklist, then on to Contractor Mobilization. The critical path continues through construction execution FY21 with a completion date of September 1, 2021. Currently the project is showing a finish date that is 16 days earlier than the baseline.

Baseline Performance available upon request.

10.2 L-850, Replace 200W 1.1M-gallon PW Tank

Table B-9. Schedule and Cost Performance

	CUR	RENT MO	NTH			FISCAL	FISCAL YEAR TO DATE				CONTRACT TO DATE								AT COMPLETION			
BCWS	BCWP	ACWP	sv	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	sv	cv	SPI	CPI	%	BAC	EAC	VAC		
\$ 338.6	\$ 165.8	\$ 208.0	\$ (172.8)	\$ (42.2)	\$ 425.8	\$ 496.7	\$ 578.5	\$ 70.9	\$ (81.9)	\$ 425.8	\$ 496.7	\$ 578.5	\$ 70.9	\$ (81.9)	1.17	0.86	10%	\$ 5,108.0	\$ 5,267.8	\$ (159.9)		

CM Schedule Variance:

The CM unfavorable schedule variance is primarily due to early completion of the long lead procurement activities for pump fabrication and receipt. Pump fabrication and receipt activities were planned to complete in the current period, but completed early in the previous period due to close coordination between the construction subcontractor and the pump vendor to ensure this long lead procurement was completed prior to the need date.

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold



10.2.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- 1) A/E completed comment incorporation for the revised DCN-002 documents and HMIS initiated DCN review.
- 2) Construction subcontractor continued premobilization submittals and fabrication.
- 3) Continued incorporating HMIS review comments on Construction SOW Rev 1 per DCN-002.

10.2.2 **90-Day Outlook**

Nothing to report.

10.2.3 **Risks/Issues/Opportunities**

• No risk, issues or opportunities were realized this period

10.2.4 **Project Risk Assessment**

Table B-10. L-850 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	2	0	0	1	24
March	0	2	0	0	1	24

Table B-11. L-850 Key Risks

	Unmitigated Risk Impacts	Asses	sment	Comments		
	Ommugated Kisk impacts	Month	Trend	Comments		
	L850	- Replace 2	00W 1.1M	-gal PW Tank - Project Risks		
•	najor changes to the program monthly stopli	ght chart:				
No major changes	to the Stoplight Chart in March.					
	Realized Risk	s (Risks th	at are cur	rently impacting project cost/schedule)		
No realized risks in	n March.					
	Critical Risks (Severe impact to ulti	mate goals	s/objective	es. Enforceable or incentivized milestone completion missed	d.)	
L850-0019-T: SWOC and MDSAS DOE	If a revision to the Solid Waste Operations Complex (SWOC) Master Documented Safety Analysis (MDSA) or			Risk Trigger: MDSA or approval of a new safety basis documen DOE.	nt is not approv	ed by
Approval	approval of a new safety basis document		4	Mitigation Action(s)	FC Date	%
Legacy Risk #: 3208 & L850-	is not approved by DOE by the end of the project then a project delay will occur impacting schedule.			Risk is accepted with no mitigation actions planned at this time.	Ongoing	NA
0019-T	Risk Handling Strategy: Accept			Mitigation Action Assessment:		
	Probability: Somewhat Likely (50%)			No major changes in the month of March.		
	Worst Case Impacts: \$0, 192 days					
	High Risk Threat	Value (Re	coverable	slip to enforceable or incentivized milestone)		



	Unwitigated Diely Lympets	Asses	ssment	Commonts		
	Unmitigated Risk Impacts	Month	Trend	Comments		
	L850	- Replace 2	200W 1.1M	-gal PW Tank - Project Risks		
L850-0001-T: Design Errors or Omissions	If Design errors or omissions result in redesign and rework, then project cost and schedule will be impacted.			Risk Trigger: Design reviews reveal comments/issues were not in causing rework and potential delays.	ncorporated in	to them
Resulting in Redesign and	Risk Handling Strategy: Accept			Mitigation Action(s)	FC Date	%
Rework	Probability: Unlikely (18%)			Coordinate engineering support availability into project schedule.	Ongoing	NA
Legacy Risk #: 3087 & L850-	Worst Case Impacts: \$50.0K, 96 days			Communicate scheduling changes impacting engineering review to lead engineer.	Ongoing	NA
0001-T				Create adequate review and comment periods in the schedule for reviewing the A/E's 30%, 60%, 90%, & 100% products.	Ongoing	NA
				Mitigation Action Assessment: No major changes in the month of March. In March, the 100% design is incorporating design changes.		
	UnassignedRisl	ks (Pendi	ing owner	rship of identified risks/opportunities)		
L850-0024-T: Ambient Air Boundary on				by the Department of Ecology due to disagreement on the ambient are tator, and subsequent project activities are delayed impacting project activities.		
Hanford	HMIS Comment: No major changes in the					
Legacy Risk#: L850-0024-T	and related demolition and construction act Delays to NOC application approval due to Technology (BACT/T-BACT) analysis to new direction, and to incorporate Volatile (ivities to in needing ac include Sele Organic Co	nstall new po dditional tin ective Catal mpounds/O	regency diesel generator at the 200W Pump House resulting in a delaumps and piping within the 200E Pump House. ne to modify the Best Available Control Technology/Toxic-Best Avytic Reduction (SCR) and Diesel Particulate Filter (DPF) technology izone Depleting Substances (VOC/ODS) as identified in the recent I	railable Contro ies, per Ecolog Liqui d Effluent	ol gy's
		n, also per l	Ecology's di	rection. This delay is impacting 200E RW Pumps Installed and Operation	erational and	
	Project Complete.	annulated the	oin NOC in	complexitions and initiated the multiple comment noticed. One of the mo	acitions for the	
				ternal review and initiated the public comment period. One of the pool include the Nuclear Waste Program Manager (i.e., Richland Office		;
	•	-		is getting up to speed on things as they are a new employee. This d	U	to
	C / C I			Department of Ecology could drive cost impacts in commodities.	•	

10.2.5 **Key Milestones**

Table B-12. L-850 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.2.6 **Baseline Performance**

The L-850 critical path to "Project Complete" is comprised of schedule activities both within and beyond the HMIS Performance Measurement Baseline (PMB). The critical path starts with approval of the combined NOC application by Ecology. After NOC approval, the critical path continues through L-895 backup generator installation/testing and L-895 200W RW Pumps Installed and Operational on September 27, 2021. Next the critical path goes through L-894



RPBA demo and perform cut & caps, then L-850 demo of 282WC piping/equipment. The PMB critical path ends with installation of new pumps and piping inside 282WC on January 31, 2021.

Baseline Performance available upon request.

10.3 L-897, Central Plateau Water Treatment Facility

Table B-13, L-897 Schedule and Cost Performance

Jan	CUR	RENT M	ONTH			FISCAL	YEAR TO	DATE					ONTRACT	TO BAT	E			AT C	OMPLETE	ON
BCW8	BCWP	ACWP	8V	CV	BCWs	BCWZ	ACWP	SV	CV	BCWS	BCWP	ACWP	8V	CV	SPI	CPI	14:	BAC	EAC	VAC
\$ 235.8	5 188.4	5 200.3	\$ 045.406.3	01.59	\$ 479.5	\$ 1,0629	\$ 940.7	\$ 523.3	1 60.2	\$ 479.5	\$-1306.9	\$ 940.7	\$ 521.3	5 662	109	1.06	11.8%	\$ 9,269.5	\$ 9,740.3	\$ (470.8)

CM Schedule Variance:

CM SV is within threshold

CM Cost Variance:

CM CV is within threshold

Contract-to-Date (CTD) Schedule Variance:

The CTD favorable schedule variance is primarily due to the construction subcontractor's accelerated progress on long lead procurement submittals (Pre-Engineered Metal Building, Emergency Diesel Generator, Air Handling Units, and Air Conditioning Units). Progress on long lead procurement submittals were planned to be level loaded throughout the procurement effort, and therefore BCWS was spread over the procurement period. Significant progress on LLP items was made in the current period due to close coordination between the construction subcontractor and their lower-tiers to ensure long lead procurements and submittals are completed prior to need dates.

CTD Cost Variance:

CTD CV is within threshold

Variance at Completion:

CTD VAC is within threshold

10.3.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- 1. Construction subcontractor continued long lead submittals and procurements.
- 2. Construction subcontractor continued development of premobilization submittals.
- 3. Received Critical Decision (CD)-0 approval on 2/22/2021.
- 4. WDOH approved Project Report.



• 5. Issued RFP, received proposal, and initiated proposal evaluation for the HMIS membrane filters and treatment system procurement.

10.3.2 **90-Day Outlook**

Nothing to report.

10.3.3 Risks/Issues/Opportunities

- ID- L897-0046-T If the Notice of Construction (NOC) application is not approved by the Department of Ecology due to disagreement on the ambient air boundary and ambient air modeling, then installation and testing of backup generator, and subsequent project activities are delayed impacting project schedule and cost.
- ID-L897-0015-T If procurement bid cycle is delayed because of excessive Request for Proposal (RFP) questions, delay in receipt of bids, vendor supply issues, or quality concerns then additional procurement cycle time will be necessary impacting project schedule.

10.3.4 **Project Risk Assessment**

Table B-14. L-897 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	1	2	0	0	3	37
March	1	2	0	0	3	37

Table B-15. L-897 Key Risks

	I have to d Dialy Importa	Asses	sment	Communita		
	Unmitigated Risk Impacts	Month	Trend	Comments		
	L897 - Ce	ntral Plate	au Water '	Treatment Facility - Project Risks		
•	jor changes to the program monthly stopling the Stoplight Chart in March.	ght chart:				
	Realized Risk	s (Risks th	at are cur	rently impacting project cost/schedule)		
L897-0015-T: Procurement bid cycle delays.	If procurement bid cycle is delayed because of excessive RFP questions, delay in receipt of bids, vendor supply			Risk Event: Membrane vendor does not agree with the Terms and HMIS's service contract, delaying the membrane procurement procurement procurement procurement procurement procurement procurement.		of
	issues, or quality concerns then additional procurement cycle time may			Recovery Action(s)	FC Date	%
Legacy Risk#:	be necessary impacting project schedule.			HMIS Procurements negotiate with vendor.	Ongoing	NA
2052	Risk Handling Strategy: Accept			Award membrane and processing equipment procurement & fabrication contract (L897-6520A6).	05/2021	40
	Probability : Likely (75%)		1	Notice to commence manufacture (L 897-1404).	07/2021	0
	Worst Case Impacts: 48 days		ľ	Recovery Action Assessment: No major changes in the month of March. On 1/25/2021 HMSEC reprocurement process with the membrane vendor leading to a revise schedule. Terms and conditions discussions are ongoing. HMIS net notification thresholds, and negotiations of Terms and Conditions and delay in Membrane Contract award and downstream install activities.	ed procurement w lower proc are driving a p	curement
	Critical Risks (Severe impact to ulti	mate goals	/objective	es. Enforceable or incentivized milestone completion missed.))	



		Assessi	ment _										
	Unmitigated Risk Impacts	Month	Trend	Comments									
	I 807 - Co			 Treatment Facility - Project Risks									
L897-0017-T: Change orders, RCIs, DCNs or	If there is an abnormal amount of change orders, Request for Clarification or Information (RCIs), Design Change	itrai Fiateat	water	Risk Trigger: Abnormal amount of RCIs, DCNs or change orders schedule and create delays	will increase	project							
change orders.	Notices (DCNs), or change orders, then			Mitigation Action(s)	FC Date	%							
Legacy Risk#:	project will be impacted. Risk Handling Strategy: Accept			Complete a sound and well written FRDC, encourage detail from all reviewers.	Complete	100							
2054	Probability: Somewhat Likely (50%)		1	Develop a well written SOW that clearly details the scope and end result of the project.	Complete	100							
	Worst Case Impacts: \$300K, 48 days			Encourage questions and exchanges during RFP that will eliminate change orders, RCIs and/or DCNs later. Clearly write in RFP the review times for change orders, RCIs and DCNs for all parties to limit delays in responses.	Complete	100							
				Maintain open communication with design/construction subcontractor to allow for exchanges to happen organically.	Ongoing	NA							
				Provide change order, RCI and DCN responses within timeframe identified in RPP. Ongoing N									
	High Rick Threat V	Value (Reco	overable.	No major changes in the month of March. There have been numerous communication issues with A/E reachin vendor and incorporating the membrane specs into the project desi implemented ongoing increased communication with the design ar subcontractors to minimize future potential impacts. All change or responses are provided within the timeframe identified in the RFP the FRDC water demand documented in Pall RCI 30, driving the membrane rack. Contracts continues being diligent on reviewing c and has requested back up to support the labor rates they are charg down the A/E labor claims resulting in November 2020's BCR VI slip to enforceable or incentivized milestone)	gn. The project of construction der, RCI, and The A/E did necessity of a laims from thing. MSA ne	ect has on d DCN dn't meet 4th ne A/E gotiated							
I 007 0016 T		arue (Reco	Verable	Risk Trigger: Key project position staff turnover may impact project	1 11								
L897-0016-T: Attrition, staffing reductions.	If attrition or staffing reductions result in staffing turnover during the project, then efficiency will be impacted, resulting in schedule delays.			Mitigation Action(s)	FC Date	%							
Legacy Risk#: 2053	Risk Handling Strategy: Accept			Identify key personnel during planning. Establish back up and alternates for key project positions to reduce	Complete Ongoing	100 NA							
2033	Probability: Somewhat Likely (48%) Worst Case Impacts: \$0, 60 days		\	impacts. Maintain good documentation in the event a non-coordinated work turnover occurs.	Ongoing	NA							
		(2) 11		Mitigation Action Assessment: No major changes in the month of March. With little exception, key personnel positions have alternates and phas reduced the impact of staff attrition.	project docun	nentation							
	8	` '		rship of identified risks/opportunities)									
L897-0037-T: Ambient Air Boundary on Hanford. Legacy Risk #: 3220	HMIS Comment: Department of ecology rejected the L-895 NOC based on the ambient air boundary as prescribed by DOE. A combined NOC application is now being pursued for projects L-897, L-895, L-850, L-849, L-826, and L-781 due to recent communication from DOE and Ecology to group or otherwise combine multiple projects. Delays to NOC application approval due to needing additional time to modify the Best Available Control Technology/Toxic-Best Available Control Technology (BACT/T-BACT) analysis to include Selective Catalytic Reduction (SCR) and Diesel Particulate Filter (DPF) technologies, per Ecology's new direction, and to incorporate Volatile Organic Compounds/Ozone Depleting Substances (VOC/ODS) as identified in the recent Liquid Effluent Retention Facility (LERF) NOC application, also per Ecology's direction. This delay is impacting Construction Mobilization, Water to Grid, and Project Complete. Ecology has indicated that they have not completed their NOC internal review and initiated the public comment period. One of the positions for the reviewers is currently vacant, and it is assumed they would need to include the Nuclear Waste Program Manager (i.e., Richland Office Program Manager). Ecology presumes that this individual is very busy and is getting up to speed on things as they are a new employee. This delay is forecast to impact NOC approval by 12-weeks. Delays in NOC approval from Department of Ecology could drive cost impacts in commodities.												
DOEL897-0014- T: Delayed External Review and Approval Cycles.	HMIS Comment: Project L-897 has been d defined, the Total Estimated Cost (TEC) is Capital Line Item Project consistent with th Assets". During the development of the Pro	efined as a po now expected the principles a ject Data Sho	otential R d to excee and provi eet (PDS)	eportable General Plant Project (GPP). As the project has progressed the GPP threshold of \$20M. Due to this, L-897 is now required to sions in DOE 413.3B "Program and Project Management for the Acc, it was established that Risk #L897-0004-T was not within HMIS's transfer and acceptance via correspondence control and DOE-RL.	be executed quisition of C	as a Capital							



	Unmitigated Risk Impacts	Asses	ssment	Comments
	Omnugated Kisk impacts	Month	Trend	Comments
	L897 - Cer	ntral Plate	au Water [Freatment Facility - Project Risks
Legacy Risk# L897-0004-T (2051)	reviewers is currently vacant, and it is assur Manager). Ecology presumes that this indiv	ned they w	ould need t ry busy and	remal review and initiated the public comment period. One of the positions for the o include the Nuclear Waste Program Manager (i.e., Richland Office Program is getting up to speed on things as they are a new employee. This delay is forecast to Department of Ecology could drive cost impacts in commodities.
DOEL897-0005- T: Hanford Site Incident. Legacy Risk # L897-0022-T (2067)	defined, the Total Estimated Cost (TEC) is Capital Line Item Project consistent with the Assets". During the development of the Pro-	now expected principle in ject Data S	ted to excees s and provisions Sheet (PDS)	eportable General Plant Project (GPP). As the project has progressed and become more d the GPP threshold of \$20M. Due to this, L-897 is now required to be executed as a sions in DOE 413.3B "Program and Project Management for the Acquisition of Capital, it was established that Risk #L897-0022-T was not within HMIS's ability to manage and ransfer and acceptance via correspondence control and DOE-RL.

10.3.5 **Key Milestones**

Table B-16. L-897 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.3.6 **Baseline Performance**

The L-897 critical path to "CD-4 Internal Target Completion" is comprised of schedule activities both within and beyond the current HMIS Performance Measurement Baseline (PMB). The critical path starts within the PMB with awarding the Membrane and Processing Equipment subcontract. After subcontract award, the critical path continues through Membrane submittal receipt, submittal approval, and material release for procurement. The PMB critical path ends with Membrane Processing Equipment procurement and fabrication on January 25, 2022.

Baseline Performance available upon request.

10.4 L-781, 181D Vertical Turbine Pumps

Table B-17. L-781 Schedule and Cost Performance

Γ		CURRENT MONTH FISCAL YEAR TO DATE							CONTRACT TO DATE AT COMPLI							COMPLET	ION				
Γ	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	%	BAC	EAC	VAC
	\$ 567.3	\$ 29.6	\$ 54.4	\$(537.7)	\$ (24.8)	\$ 605.3	\$ 47.4	\$ 74.4	\$ (557.9)	\$ (27.0)	\$ 605.3	\$ 47.4	\$ 74.4	\$ (557.9)	\$ (27.0)	0.08	0.64	6%	\$ 754.1	\$ 820.7	\$ (66.6)

CM Schedule Variance:

The CM unfavorable schedule variance is primarily due to delay of the A/E's 30% Design approval milestone payment. This milestone was planned to complete near the end of Fiscal Month March, but is now forecast to complete the beginning of Fiscal Month April due to schedule delays associated with a Stop Work that was issued for all L-781 design work and subcontracts from 1/27/21 to 2/4/21 as DOE had not provided HMIS with authorization to



perform L-781 scope. This Stop Work delayed the start of the 30% Design package review and therefore impacted downstream 30% Design activities.

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

The CTD unfavorable schedule variance is primarily due to delay of the A/E's 30% Design approval milestone payment. This milestone was planned to complete near the end of Fiscal Month March, but is now forecast to complete the beginning of Fiscal Month April due to schedule delays associated with a Stop Work that was issued for all L-781 design work and subcontracts from 1/27/21 to 2/4/21 as DOE had not provided HMIS with authorization to perform L-781 scope. This Stop Work delayed the start of the 30% Design package review and therefore impacted downstream 30% Design activities.

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.4.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- 1) HMIS completed review of 30% Design and provided review comments to the A/E.
- 2) Completed Formal 30% Design/Constructability Review Meeting.
- 3) A/E completed 30% Design comment dispositions.
- 4) HMIS initiated approval of A/E 30% Design comment dispositions.
- 5) Ecology continued review of NOC and HIA.

10.4.2 **90-Day Outlook**

Nothing to report.



10.4.3 Risks/Issues/Opportunities

• Issues:

1.) A Stop Work was issued for all L-781 design work and subcontracts from 1/27/21 to 2/4/21. Working to minimize schedule impacts.

10.4.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-18. L-781 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	38
March	0	0	0	0	0	38

10.4.5 **Key Milestones**

Table B-19. L-781 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.4.6 **Baseline Performance**

The L-781 critical path is comprised of activities both within and beyond the current HMIS Performance Measurement Baseline (PMB). The critical path starts within the PMB with completion of the L-781 Conceptual Design, then moves through L-826 Conceptual Design development and approval. After L-826 Conceptual Design is approved, the PMB critical path ends with the A/E developing and submitting the L-781 60% Design package on September 23, 2021.

Baseline Performance available upon request.



10.5 L-826, 181B Vertical Turbine Pumps

Table B-20. L-826 Schedule and Cost Performance

	CURRENT MONTH FISCAL YEAR TO DATE							CONTRACT TO DATE							AT COMPLETION					
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	%	BAC	EAC	VAC
\$ 25.0	\$ 27.1	\$ 9.2	\$ 2.1	\$ 17.9	\$ 54.7	\$ 49.3	\$ 11.4	\$ (5.4)	\$ 37.9	\$ 54.7	\$ 49.3	\$ 11.4	\$ (5.4)	\$ 37.9	0.90	4.33	12%	\$ 417.1	\$ 369.6	\$ 47.5

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.5.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- 1) A/E continued developing 30% Conceptual Design.
- 2) Ecology continued review of NOC and HIA.

10.5.2 **90-Day Outlook**

Nothing to report.

10.5.3 **Risks/Issues/Opportunities**

Risks: None realized



• Issues:

1.) A Stop Work was issued for all L-826 design work and subcontracts from 1/27/21 to 2/4/21. Working to minimize schedule impacts.

10.5.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-21. L-826 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	37
March	0	0	0	0	0	37

10.5.5 **Key Milestones**

Table B-22. L-826 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.5.6 **Baseline Performance**

The L-826 critical path is comprised of activities both within and beyond the current HMIS Performance Measurement Baseline (PMB). The critical path starts within the PMB with completion of the L-781 Conceptual Design, then moves through L-826 Conceptual Design development. The PMB critical path ends with L-826 Conceptual Design approval on May 20, 2021.

Baseline Performance available upon request.

10.6 L-849, Replace 200E 1.1M-gallon PW Tank

Table B-23. L-849 Schedule and Cost Performance

	CURRENT MONTH FISCAL YEAR TO DATE												CONTRAC	T TO DA	TE			AT CO	OMPLETIC	ON
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	%	BAC	EAC	VAC
\$ 19.5	\$ 18.6	\$ 17.7	\$ (0.9)	\$ 0.8	\$ 37.6	\$ 37.1	\$ 26.0	\$ (0.5)	\$ 11.2	\$ 37.6	\$ 37.1	\$ 26.0	\$ (0.5)	\$ 11.2	0.99	1.43	6%	\$ 611.7	\$ 502.1	\$ 109.5

CM Schedule Variance:

CM schedule variance is within threshold



CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.6.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• A/E continued development of the 60% Design Package (Due 4/27/21).

10.6.2 **90-Day Outlook**

Nothing to report.

10.6.3 **Risks/Issues/Opportunities**

10.6.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-24. L-849 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	23
March	0	0	0	0	0	23



10.6.5 **Key Milestones**

Table B-25. L-849 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.6.6 **Baseline Performance**

The L-849 critical path is comprised of schedule activities both within and beyond the HMIS Performance Measurement Baseline (PMB). The critical within the PMB starts with the development and approval of the 60% design package. After 60% Design, The critical path continues through 90% Design development and approval, then through 100% Design development. The critical path continues through subcontract SOW and requisition approval, advanced notification, source selection, and developing and issuing a Request for Proposal. The PMB critical path ends with the potential subcontractor's submitting RFP questions on October 21, 2021.

Baseline Performance available upon request.

10.7 L-894, Raw Water Cross Connect Isolation 200E/W

Table B-26. L-894 Schedule and Cost Performance

	CURF	RENT MO	NTH		FISCAL YEAR TO DATE							co	NTRACT	TO DATE				AT COMPLETION		
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	%	BAC	EAC	VAC
\$ 11.9	\$ 5.7	\$ 7.6	\$ (6.2)	\$ (1.9)	\$ 21.0	\$ 13.8	\$ 10.7	\$ (7.2)	\$ 3.1	\$ 21.0	\$ 13.8	\$ 10.7	\$ (7.2)	\$ 3.1	0.66	1.29	9.3%	\$ 148.5	\$ 169.0	\$ (20.5)

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.7.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- 1. Received proposal for A&E services, and initiated proposal evaluation.
- 2. SOW development for remainder of construction services, as the construction contract was not novated.

10.7.2 **90-Day Outlook**

Nothing to report.

10.7.3 **Risks/Issues/Opportunities**

• No risk, issues or opportunities were realized this period

10.7.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-27. L-894 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	6
March	0	0	0	0	0	6



10.7.5 **Key Milestones**

Table B-28. L-894 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.7.6 **Baseline Performance**

The L-894 critical path is comprised of schedule activities both within and beyond HMIS Performance Measurement Baseline (PMB). Project L-894 critical path flows through Project L-895. The critical path starts with approval of the combined NOC application by Ecology. After NOC approval, the critical path continues through L-895 backup generator installation/testing and L-895 200W RW Pumps Installed and Operational on September 27, 2021. Then through the L-895 200E Pump House outage, L-895 282E electrical demolition, routing and stranding fiber optic cable. The PMB critical path ends with L-895 terminating 200E fiber on December 8, 2021.

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Baseline Performance available upon request.

10.8 L-895, Fire Protection Infrastructure for PRW

Table B-29. L-895 Schedule and Cost Performance

CURRENT MONTH FISCAL YEAR TO DATE				CONTRACT TO DATE								AT COMPLETION								
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	%	BAC	EAC	VAC
\$ 210.6	\$ 88.5	\$ 198.2	\$ (122.1)	\$ (109.7)	\$ 529.9	\$ 384.9	\$ 429.7	\$ (145.1)	\$ (44.8)	\$ 529.9	\$ 384.9	\$ 429.7	\$ (145.1)	\$ (44.8)	0.73	0.90	15.4%	\$ 2,502,4	\$ 2,728.3	\$ (225.9)

CM Schedule Variance:

The current month unfavorable schedule variance is primarily due to delay in awarding the A/E services subcontract. A/E support during construction, and other scope to be performed by the A/E (Operational Acceptance Test procedure development, new operation and maintenance procedure development) was planned to take place in the current period, but is now forecast to start in Fiscal Month April due to delays in awarding the A/E subcontract related to having to go through the full procurement process as this subcontract was not novated to HMIS. The majority of the current month schedule variance is anticipated to be recovered by Fiscal Month July after the A/E has progressed OAT procedure development.

CM Cost Variance:

The current month unfavorable cost variance is primarily due to an accrual correction from the previous period discussed in last month's OPR report relating to the construction subcontractor's



scope. Additionally, a usage variance for HMIS/NW labor as support was more than planning assumptions for the current period in order to support ongoing fieldwork and prepare for acceptance testing (without the generator). Cost variance related to increased labor support is not anticipated to be recovered.

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Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD schedule variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.8.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- 1. Performed QC checks on meggering and lugging.
- 2. Engineering continued in house work on remaining DCNs/ECRs
- 3. Continued labeling and termination of feeders and low voltage control wires.
- 4. Continued in-house work to 200W Mechanical and Electrical Construction Acceptance Test (CAT) procedures.
- 5. Received proposal and initiated proposal evaluation for A&E Services.

10.8.2 **90-Day Outlook**

Nothing to report.

10.8.3 **Risks/Issues/Opportunities**

• Risks:

1. ID-L895-0015-T - If the Notice of Construction (NOC) application is not approved by the Department of Ecology due to disagreement on the ambient air boundary and ambient



air modeling, then installation and testing of backup generator, and subsequent project activities are delayed impacting project schedule and cost.

2. ID-L895-0016-T - If existing (sub)contracts are not novated, then procurements will have to be re-accomplished, impacting project cost and schedule. Risk Realized.

Issues:

- 1. The A/E subcontractor was developing DCNs to support remaining construction, as well as CAT/OAT procedures and Ops/Maintenance procedures. These elements have been delayed and become driving path to 200W Pumps Installed and Operational.
- 2. Ecology has indicated that they have not completed their NOC internal review and initiated the public comment period. One of the positions for the reviewers is currently vacant, and it is assumed they would need to include the Nuclear Waste Program Manager (i.e., Richland Office Program Manager). Ecology presumes that this individual is very busy and is getting up to speed on things as they are a new employee. This delay is forecast to impact NOC approval by 12-weeks.

10.8.4 **Project Risk Assessment**

Table B-30. L-895 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	1	0	0	0	0	16
March	1	0	0	0	0	16

Table B-31. L-895 Key Risks

	Unmitigated Risk Impacts	Asses	sment	Comments					
	Cimitagatea Risk impacts	Month	Trend	Comments					
	L895 - Fire '	Water Prot	ection Inf	rastructure for PRW - Project Risks					
Explanation of ma	jor changes to the program monthly stopli	ght chart:							
Project risks are curr	rently being evaluated as Reliability Project T	ask Orders	are received	d.					
Risks continue to be	monitored per HMIS-PLN-RIM-42375, Proj		U						
	Realized Risk	S (Risks th	at are cur	rently impacting project cost/schedule)					
L895-0016-T: Sub-contract	If existing (sub)contracts are not novated because of subcontracting expectations,			Risk Event: Sub-contracts were not novated.					
novation	then procurements will have to be re- accomplished impacting project schedule		1	Recovery Action(s)	FC Date	%			
I D: -1- #.	and cost.			Re-accomplish SOW	TBD	0			
Legacy Risk #: N/A	Risk Handling Strategy: Accept			Construction RFP back through procurement.	TBD	0			
IVA	Probability: Likely (75%) Worst Case Impacts: \$200K, 32 days			Recovery Action Assessment: Sub-contracts were not novated. Impacts are being determined at the	his time.				
	Critical Risks (Severe impact to ulti	mate goals	s/objective	es. Enforceable or incentivized milestone completion missed.))				
No Critical risks ide	entified in March.								

High Risk Threat Value (Recoverable slip to enforceable or incentivized milestone)

Unassigned Risks (Pending ownership of identified risks/opportunities)

No High Threat risks identified in March.



	Unmitigated Risk Impacts	Assessment		Comments
	Olimingated Kisk impacts	Month	Trend	Comments
	L895 - Fire '	Water Prot	ection Infi	rastructure for PRW - Project Risks
No Unassigned risks	identified in March.			

10.8.5 **Key Milestones**

Table B-32. L-895 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.8.6 **Baseline Performance**

The L-895 critical path to "200E RW Pumps Installed and Operational" is comprised of schedule activities both within and beyond the current HMIS Performance Measurement Baseline (PMB). The critical path starts with approval of the combined NOC application by Ecology. After NOC approval, the critical path continues through L-895 backup generator installation/testing and L-895 200W RW Pumps Installed and Operational on September 27, 2021. Then through the L-895 200E Pump House outage, L-895 282E electrical demolition, routing and stranding fiber optic cable. The PMB critical path ends with L-895 terminating 200E fiber on December 8, 2021.

Baseline Performance available upon request.

10.9 L-838, Water Feeds to 622R, 6608 & 200W Lagoons

Table B-33. L-838 Schedule and Cost Performance

Project is still in planning phase

·	CURRENT MONTH FISCAL YEAR TO DATE					CONTRACT TO DATE								AT COMPLETION						
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	31	CV	BCWS	BCWP	ACWP	sv	CV	SPI	CPI	. 56	BAC	EAC	VAC
\$	\$	3 -	\$ -	5 -	\$ -	\$ -	\$	\$ -	\$ -	\$	\$	\$	\$ -	\$	TA	N/A	016	\$ 138.4	S 155.A	\$ -

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold



Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.9.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• Project is still in planning phase

10.9.2 **90-Day Outlook**

Nothing to report.

10.9.3 **Risks/Issues/Opportunities**

• Project is still in the planning phase

10.9.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-34. L-838 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	0
March	0	0	0	0	0	0



10.9.5 **Key Milestones**

Table B-35. L-838 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.9.6 **Baseline Performance**

N/A

Baseline Performance available upon request.

10.10 L-853, 200E Sewer Flow Equalization Facility

Table B-36. L-853 Schedule and Cost Performance

5	CURI	RENT M	ONTH		L	FISCAL	YEAR TO	DATE		Lorenza maria			ONTRACT	TO DAT	E			ATO	COMPLET	ION
BCWS	BCWP	ACWP	8V	CV	BCW5	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	1.94	BAC	EAC	VAC
3 20.4	5 14.9	\$ 19.7	\$ (5.5)	1 (4.8)	3 26.4	\$ 14.9	\$ 25.0	\$ (11.6)6	\$ (10.1)	\$ 26.4	1 14.9	\$ 25.9	\$ (11.6)	\$ (10.1)	4.56	0.50	23%	\$ 69.7	\$ 103.9	\$ (34.2

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM schedule variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold



Variance at Completion:

CTD VAC is within threshold

10.10.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Authorization for closeout activities received February 22.
- Performed walkdown with construction subcontractor, developed punchlist and completed the first of three punchlist items, "Remove Davit Crane Bases". Scheduled Lift Station MPZ circuit Labels to be replaced 03/31/21 and subcontractor working with manufacturer for resolution to Booster Station Heat Trace Fault (Warranty work).
- Continued processing submittals and A/E continued development of redline drawings.

10.10.2 **90-Day Outlook**

Nothing to report.

10.10.3 Risks/Issues/Opportunities

• No risk, issues, or opportunities were realized this period.

10.10.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-37. L-853 Risk Assessment

Period	Realized	Key		Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0

10.10.5 **Key Milestones**

Table B-38. L-853 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L853-7390	L-853, CCD-2	3/10/21		5/13/21	-37
L853-7440	L-853, Project Complete	6/2/21		8/4/21	-35



10.10.6 **Baseline Performance**

The L-853 critical path begins with Walkdown / Punchlist then on to the project closeout activity, which consists of several sub-activities some of which can be performed at any time such as updating FIMS and completing the project cost closure form. Others such as closing the project contracts and CACNs will need to be performed at a later time. Currently the project is showing a finish date of August 4, 2021 which is 35 days later than the baseline.

Baseline Performance available upon request.

10.11 L-854, 200E Sewer Consolidations

Table B-39. L-854 Schedule and Cost Performance

Š	CURI	RENT MO	INTH		Ò	FISCAL	YEAR TO	DATE				C	INTRACT	TO DATE				AT C	OMPLET	ION
BCWS	BCWP	ACWP	SV	CV	ncws	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	sv	CV	571	CPI	16	BAC	IAC	YAC
\$ 13.6	5 118	5 13	5 71.0	5 82	5 113	5 11.8	5 41	5 (5.9)	\$ 1.7	\$ 17.7	3 11.8	5 4.1	5 (3.9)	5 73	0.67	188	19%	\$ 63.0	\$ 35.7	\$ 23

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold



10.11.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Authorization for closeout activities received February 22.
- Performed walkdown with construction subcontractor, developed punchlist item and scheduled Lift Station MPZ circuit Labels to be fixed 03/31/21.
- Continued processing submittals and conducting review and approval cycle for A/E submitted redline drawings.

10.11.2 **90-Day Outlook**

Nothing to report.

10.11.3 Risks/Issues/Opportunities

• No risk, issues, or opportunities were realized this period.

10.11.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-40. L-854 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	0
March	0	0	0	0	0	0

10.11.5 **Key Milestones**

Table B-41. L-854 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L854-7390	L-854, CCD-2	3/3/21		5/18/21	-43
L854-7411	L-854, Project Complete	5/10/21		8/4/21	-48

10.11.6 **Baseline Performance**

The L-854 critical path begins with Walkdown / Punchlist then on to the project closeout activity, which consists of several sub-activities some of which can be performed at any time



such as updating FIMS and completing the project cost closure form. Others such as closing the project contracts and CACNs will need to be performed at a later date. Currently the project is showing a finish date of August 4, 2021 which is 48 days later than the baseline.

Baseline Performance available upon request.

10.12 L-801, Upgrade SCADA

Table B-42, L-801 Schedule and Cost Performance

	CUR	RENT MO	HTA	-		FISCAL	YEAR TO	DATE		-		CO.	NTRACT I	TO DATE			- 16	ATC	OMPLET	ION
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWF	SV	CV	SPI	CPI	16	BAC	EAC	VAC
\$ 159.4	\$ 83.6	\$ 65.0	\$ (75.9)	5 18.6	\$ 169.5	\$ \$3.6	\$ 78.6	\$ (85.9)	\$ 5.0	\$ 169.5	\$ 83.6	\$ 78.6	\$ (85.9)	\$ 5.0	0.49	1.06	3%	\$ 1,675.0	\$ 1,682.0	5 (7.0)

CM Schedule Variance:

The unfavorable CM schedule variance is due to reordering of construction activities. The red SPI is due to a small amount of BCWS that has been delayed with no corresponding BCWP.

CM Cost Variance:

CM cost variance is within threshold. The red CPI is due to a small amount of ACWP performed on Network Installation that was reported complete in the previous MSA contract period so no corresponding BCWP.

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold



10.12.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• SCADA network testing phase completed. OAT for the network Complete. This prepares for the next stage of installation which is the substation Remote Terminal Unit installs which will start in A6 substation on 4/12/2021.

10.12.2 **90-Day Outlook**

Nothing to report.

10.12.3 Risks/Issues/Opportunities

 Risk: COVID-19 is a risk that could impact travel restrictions for the Commissioning Contractor

10.12.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-43. L-801 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	8
March	0	0	0	0	0	8

10.12.5 **Key Milestones**

Table B-44. L-801 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.12.6 **Baseline Performance**

The L-801 critical path runs through the RTU installations. This project is impacted by COVID-19 constraints on the mobilization of resources to complete RTU installation and testing.

Baseline Performance available upon request.



10.13 L-791, RFL Transfer Trip Upgrades

Table B-45. L-791 Schedule and Cost Performance

	CUR	RENT M	HTZO			FISCAL	YEAR TO	DATE				CC	INTRACT	TO DATE			12	AT CO	MPLETIC	ON
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CL	BCWS	BCWP	ACMP	SV	CV	521	CPI	16	BAC	EAC	VAC
\$ -	\$ -	\$ 36.8	s -	\$ (36.8)	5 -	\$ -	\$ 39.6	\$ -	\$ (39.6)	S -	5 -	\$ 39.6	S -	\$ (39.6)	NA	0.00	0%	\$ 1145	\$ 174.6	\$ (60.

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.13.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• L-791 is paused while the fiber issues are worked out with the L-612 alternative study.

10.13.2 **90-Day Outlook**

Nothing to report.



10.13.3 Risks/Issues/Opportunities

- The installation of the A8 Pole Line has been delayed due to the uncertainty of whether the pole line is still required (this is tied to the L-612 project).
- We received an accrual from a vendor for work they incorrectly billed to L-791 in March. The amount (\$31k) will be reversed out next month and billed to the correct project.

10.13.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-46. L-791 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	8
March	0	0	0	0	0	8

10.13.5 **Key Milestones**

Table B-47. L-791 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.13.6 **Baseline Performance**

The critical path for Phase 2 currently begins with the contractor installation of the A8 Pole Line and continues through Phase 2 Complete. The installation has been delayed due to the uncertainty of whether the pole line is still required (this is tied to the L-612 project).

Baseline Performance available upon request.

10.14 L-707, Advanced Electrical Metering

Table B-48. L-707 Schedule and Cost Performance

d'anne	CURB	CENT MO	ONTH		FISCAL YEAR TO DATE					CONTRACT TO DATE								AT COMPLETION			
BCWS	BCWP	ACWP	5V	CV	BCWS	BUWP	ACWP	5V	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPT	76	BAC	EAC	VAC	
\$ 15.7	\$ 8.3	\$ 6.2	\$ (3.5)	1 21	\$ 27.1	\$ 23.9	\$ 11.7	1 (3.1)	\$ 12.2	\$ 27.1	\$ 23.9	\$ 11.7	\$ (0.t)	8 12.2	0.88	7.04	2%	\$ 1,174,8	\$ 1,175.2	1 (0.5)	



CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.14.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives included:

• Project acquisition approach altered and SOW revised for internal review.

10.14.2 **90-Day Outlook**

Nothing to report.

10.14.3 Risks/Issues/Opportunities

None

10.14.4 Project Risk Assessment

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.



Table B-49. L-707 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	12
March	0	0	0	0	0	12

10.14.5 **Key Milestones**

Table B-50. L-707 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L707-2010	L707, Prepare SOW	2/25/21	3/11/21	3/11/21	-8
L707-2020	L707, Procurement - SystemConcept	5/20/21		5/27/21	-4
L707-2030	L707, System Definition and Design	11/30/21		11/30/21	0

10.14.6 **Baseline Performance**

The L-707 Critical Path is comprised of schedule activities within the current HMIS PMB window. The critical path to "Project Complete" starts with SOW preparation and continues through System Definition and Design through the Acquisition phase to prepare for Implementation of the Advanced Electrical Metering.

Baseline Performance available upon request.



10.15 L-905, FARS & RFARS Replacement & Upgrade

Table B-51. L-905 Schedule and Cost Performance

CURRENT MONTH FISCAL Y						YEAR T	ODATE		CONTRACT TO DATE								AT COMPLETION			
BCW5	BCWP.	ACWY	5V	CV	BCWs	BCWP	ACWF	5V	CV	BCWS	BCWP	ACWF	5V	CV	SPI	CPE		BAC	EAC	VAC
3 42.6	5 43.0	\$ 320	3 0.4	\$ 11.0	\$ 172.0	\$ 94.5	\$ 447.	\$ 677.35	\$ 49.7	1 172.0	5 94.3	\$ 44.7	\$ -377.59	3 49.7	0.33	2.01	31.7%	\$ 182.9	\$ 128.E	\$ 54.1

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.15.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• Final power cutover, CAT, ROC, ATP, DEMO for 506BA, 2751E, MO413 start 3/15, end 4/1/2021.

10.15.2 **90-Day Outlook**

Nothing to report.

10.15.3 Risks/Issues/Opportunities

No risk, issues or opportunities were realized this period



10.15.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-52, L-905 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	8
March	0	0	0	0	0	8

10.15.5 **Key Milestones**

Table B-53. L-905 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.15.6 **Baseline Performance**

The L-905 critical path begins with Acceptance Test Procedures at MO413 and 2715E, and finishes at Project Complete.

Baseline Performance available upon request.

10.16 L-911, Route 4S Lighting in 300 Area

Table B-54. L-911 Schedule and Cost Performance

Project is still in planning phase

CURRENT MONTH FESCAL YEAR TO DATE						CONTRACT TO DATE								AT COMPLETION						
BCW5	BCWP	ACWP	SV	CV	BCWS	BCWF	ACWP	SV	CV	BCW8	BCWP	ACWP	SV	CV	SPL	CPL	96	BAC	EAC	VAC
3 -	1 -	1 -	1 -	5 -	1 -	1 -	1	5 -	1 -	\$ -	1 -	1 -	1 -	5 -	NA.	SA	296	\$ 49.7	\$ 49.7	1 -

CM Schedule Variance:

CM schedule variance is within threshold



CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

Discus variance, or state CTD VAC is within threshold.

10.16.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• N/A – Project is still in planning phase

10.16.2 **90-Day Outlook**

Nothing to report.

10.16.3 Risks/Issues/Opportunities

• Project is in planning phase.

10.16.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.



Table B-55. L-911 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	0
March	0	0	0	0	0	0

10.16.5 **Key Milestones**

Table B-56. L-911 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.16.6 **Baseline Performance**

N/A – Project is still in planning phase.

Baseline Performance available upon request.

10.17 L-898, 100 Area Mission Critical Distribution Feeders Replacement

Table B-57. L-898 Schedule and Cost Performance

i	CURRENT MONTH BCWS BCWF ACWF SV CV					FISCAL YEAR TO DATE					CONTRACT TO DATE						AT COMPLETION			
BCWs	BCWF	ACWP	SV	CV	BCW5	BCWF	ACWP	SV	CV	BCW5	BCWF	ACWP	. 5V	CV	SPI	CPE	. 194	BAC	EAC	VAC
\$ 42.2	\$ 57.8	\$ 77.9	\$ 12.7	\$ (20.1)	5 814	\$ 62.6	1 152	\$ (18.8)	\$ (22.0)	\$ 51.4	3 424	1 85.2	3 (15.0)	\$ (22.6)	-0.77	0.75	12%	\$ 326.5	\$ 587.9	\$ (61.4)

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.17.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives included:

• Owners Engineer scope awarded.

10.17.2 **90-Day Outlook**

Nothing to report.

10.17.3 **Risks/Issues/Opportunities**

• No risk, issues, or opportunities were realized this period.

10.17.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-58, L-898 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	16
March	0	0	0	0	0	16

10.17.5 **Key Milestones**

Table B-59. L-898 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L898-1040A	L-898, Draft Conceptual Design	3/30/21		8/2/21	-69
L898-1040B	L-898, Complete Conceptual Design	8/2/21		8/2/21	17



10.17.6 **Baseline Performance**

The L-898 Critical Path is comprised of schedule activities within the current HMIS PMB window. The critical path to "Construction Complete" currently starts with Draft Conceptual Design and ends with Complete Conceptual Design. Overall, this project is on schedule and the current Critical Path continues through procurement of A/E Design contractor to perform Design Activities to 100 Area Mission Critical Distribution Feeders Replacement.

Baseline Performance available upon request.

10.18 L-612, 230kV Transmission System Reconditioning & Sustainability

Table B-60. L-612 Schedule and Cost Performance

	CUR	RENT M	ONTH		i	FISCAL	YEAR TO	DATE				CC	ONTRAC	I TO DATE				AT CO	OMPLETIO	XX.
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	44	BAC	EAC	VAC
5 -	5 -	\$ (8.1)	\$ -	\$ 81	\$ 22.9	\$ 22.9	\$ 22.9	\$ -	\$ 0.0	\$ 22.9	\$ 229	\$ 22.9	5 -	\$ 0.0	1.00	1.00	100%	\$ 22.9	\$ 322.9	\$ (300.0

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold



10.18.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• L-612 has been paused at the 90% design approval of the optimized design for alternative studies.

10.18.2 **90-Day Outlook**

Nothing to report.

10.18.3 Risks/Issues/Opportunities

- Risk: Difficulty in delivering all BPA standards and definitions while meeting the \$50 million dollar cost constraint.
- Risk: BPA rejects any attempt at reducing cost if it changes any of their specifications, could result in a scope, schedule and cost change
- Opportunity: Begin preparing April BCR to incorporate updated System Condition Assessment and AoA to provide for an informed path forward for the project.

10.18.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-61. L-612 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	15
March	0	0	0	0	0	15

10.18.5 **Key Milestones**

Table B-62. L-612 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance



10.18.6 **Baseline Performance**

The Project is currently on hold by DOE direction.

Baseline Performance available upon request.

10.19 L-861, Single-Circuit Distribution Pole Replace

Table B-63. L-861 Schedule and Cost Performance

Г		CURRENT MONTH					П	FISCAL YEAR TO DATE							(ONTRACT	TO DAT	E			AT COMPLETION		
	BCWS	B	BCWP	ACWP	SV	C	V	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	96	BAC	EAC	VAC
\$	72.0	\$	57,3	\$ 55,7	\$ (14.7)	S .	1.6	\$ 146.8	\$ 142.5	\$ 90.2	\$ (4.3)	\$ 52.3	\$ 146.8	\$ 142.5	\$ 90.2	\$ (4.3)	\$ 52.3	0.97	1.58	29%	\$ 485.6	\$ 472.9	\$ 12.7

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.19.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• A/E Submitted the 60% package early on 3/17/2021. Submittal date was set for 3/23/2021.



- Project support and notifications were sent and review cycles confirmed. The package has been distributed to the review team.
- Scanning is continuing to confirm optimized new locations of distribution poles where needed.

10.19.2 **90-Day Outlook**

Nothing to report.

10.19.3 Risks/Issues/Opportunities

• No risk, issues, or opportunities were realized this period.

10.19.4 Project Risk Assessment

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-64. L-861 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	16
March	0	0	0	0	0	16

Table B-65. L-861 Key Risks

	Unmitigated Risk Impacts	Assessi	ment Trend	Comments								
	L-861, Single-Circuit Distribution Pole Replace											
Explanation of mag	Explanation of major changes to the program monthly stoplight chart:											
No major changes to	the Stoplight Chart in March.											
	Realized Risl	KS (Risks tha	it are curi	rently impacting project cost/schedule)								
No realized risks in	March.											
	Critical Risks (Severe impact to ult	imate goals/c	bjective	s. Enforceable or incentivized milestone completion missed.)								
No critical risks iden	tified in March.											
	High Risk Threat	Value (Reco	overable	slip to enforceable or incentivized milestone)								
No High risks identi	fied in March.											
	UnassignedRis	ks (Pending	g owner	rship of identified risks/opportunities)								
No unassigned risks	No unassigned risks identified in March.											



10.19.5 **Key Milestones**

Table B-66. L-861 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.19.6 **Baseline Performance**

The L-861 critical path runs through design development, review, and approval.

Baseline Performance available upon request.

10.20 L-789, Priority T&D System Wood PP Test & Replace

Table B-67. L-789 Schedule and Cost Performance

	CURI	RENT MOS	VTH.			FISCAL	YEAR TO	DATE				CO	STRACT TO	DATE				ATC	OMPLETIC	ON
BCWS	BCWF	ACWP	SV	CV	BCWS	DCWP.	ACWF	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPL	CPI	76	BAC	EAC	VAC
971.5	\$ 313.4	\$ 287.0	\$ 1000.00	\$ 26.4	\$ 2,188.0	\$ 712.2	\$ 530.0	\$121,075.96	5 (60),1	5.23880	\$ 712.2	\$	\$40,0580	9 162.12	0.30		0.221	5 1,651.1	\$ 3,664.8	500,000

CM Schedule Variance:

The CM SV is driven by the construction subcontractor being pulled from Hanford in February to support emergency power restoration in Oregon. A near term BCR will be processed to replan the remaining work.

CM Cost Variance:

The CM CV is within threshold.

Contract-to-Date (CTD) Schedule Variance:

The CTD SV is driven by the construction subcontractor being pulled from Hanford in February to support emergency power restoration in Oregon. A near term BCR will be processed to replan the remaining work.



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is primarily driven by construction subcontractor change orders that were not captured in the baseline.

10.20.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Continued installation of wood poles, and performing trenching, and installation of handholds and conduit at the A8 Substation.
- Performed sagging and clipping of new overhead conductors on 23rd Street and in vicinity of T Plant
- Prepared for initiating cutover outages that will start on 4/1.

10.20.2 **90-Day Outlook**

Nothing to report.

10.20.3 Risks/Issues/Opportunities

• No risk, issues or opportunities were realized this period

10.20.4 Project Risk Assessment

Table B-68. L-789 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	1	0	0	0	0	12
March	0	0	0	0	0	12

Table B-69. L-789 Key Risks

	Unmitigated Risk Impacts	Asses	sment	Comments
	Olimiugateu Kisk impacts	Month	Trend	Comments
	L789 - Pri	ority T&D	Sys Wood	PP Test & Replace - Project Risks
Explanation of mag	jor changes to the program monthly stopli	ght chart:		
Realized risk L-789-	0014-T: Linemen Mutual Aid was an artifact	of poor we	eather and is	s no longer being realized. Risk will continue to be monitored.
	RealizedRisk	S (Risks th	nat are cur	rently impacting project cost/schedule)
No Realized Risks in	n March			



	Unmitigated Risk Impacts	Asses	ssment	Comments
	Olimhugateu Kisk impacts	Month	Trend	Comments
	L789 - Pri	ority T&D	Sys Wood	PP Test & Replace - Project Risks
	Critical Risks (Severe impact to ulti	mate goal	s/objective	ss. Enforceable or incentivized milestone completion missed.)
No Critical Risks in	March.			
	High Risk Threat V	alue (Re	coverable	slip to enforceable or incentivized milestone)
No High Risk Threa	ts in March.			

10.20.5 **Key Milestones**

Table B-70. L-789 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L789-7840	L-789, Construction Completion Document	5/6/21		6/23/21	-26
L789-7950	L-789, Project Closeout/File Transfers to Document Control	9/13/21		10/27/21	-26
L789-7960	L-789, Project Complete	10/17/21		12/7/21	-51

10.20.6 Baseline Performance

The L-789 critical path to project complete starts with completing the corridor construction then continues to removal and cleanup, then through the remaining construction and project closeout activities. Currently the project is showing a finish date that is 26 days beyond the baseline finish date.

Baseline Performance available upon request.

10.21 L-720, Outdoor Lighting Reconfiguration & Replacement

Table B-71. L-720 Schedule and Cost Performance

		ENT MO				FISCAL				CONTRACT TO DATE								AT COMPLETION		
BCWS	BCWF	ACWP	SV	CV.	BCW5	BCWP	ACTE	SV	CV	BCW5	BCWP	ACUT	5V	CV	50%	CFI	.76	BAC	EAC	VAC
5.160.4	\$ 16.0	5 428	\$044.4	5 (26.8)	5 231.0	\$ 88.0	\$ 51.3	5 (142.9)	\$ 36.7	\$ 231.0	\$ 88.0	\$ 313	5 (142.9)	3 367	0.38	1.72	2%	5 1,838.4	\$ 1,869.7	5 (313)

CM Schedule Variance:

CM schedule variance is due to the Contractor being unable to mobilize as planned. A BCR is planned in April to align BCWS with proposed Contractor Schedule. Contractor has revised their schedule logic and has re-sequenced activities. As a result, field activities will occupy less time than planned and SV should be recovered in full.



CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.21.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives included:

- Initiated project submittals/review.
- Long lead time materials acquisition started by contractor.

10.21.2 **90-Day Outlook**

Nothing to report.

10.21.3 Risks/Issues/Opportunities

• No risk, issues or opportunities were realized this period

10.21.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-72. L-720 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	7
March	0	0	0	0	0	7



10.21.5 **Key Milestones**

Table B-73. L-720 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L720-7060A	L-720, Contractor Mobilization	3/1/21		6/7/21	-55
L720-7080	L-720, Construction Execution	11/9/2021		9/1/21	38

10.21.6 **Baseline Performance**

The L-720 Critical Path is comprised of schedule activities within the current HMIS PMB window. The critical path to "Construction Complete" currently starts with Contractor Mobilization and continues through Construction Execution to complete the Outdoor Lighting Reconfiguration and Replacement.

Baseline Performance available upon request.

10.22 L-534, Overlay Interior 200 East Roads

Table B-74. L-534 Schedule and Cost Performance

	CUR	RENT MO	NTH		lann-u	FISCAL	YEAR TO	DATE	i i veza mañ	la perun-		CI	ONTRACT I	O DATE				ATC	OMPLETIO	IN
BCWS	BCWF	ACWP	5V	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACTOP	SV	CV	SPI	CPI	- 14	BAC	EAC	VAC
5 9.0	\$ 69	5 4.7	\$ (2.1)	\$ (7.5)	\$ 14.9	\$ 14.3	\$ 27.4	\$ (0.6)	\$ (13.1)	\$ 14.9	\$ 14.5	\$ 27.4	\$ 19.00	\$ 7(13.1)	D.96	0.13	1%	\$ 2,091.5	\$ 2,096.7	\$ 07

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.22.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives included:

• Transition of the approved MSA construction SOW to the HMIS SOW template.

10.22.2 **90-Day Outlook**

Nothing to report.

10.22.3 Risks/Issues/Opportunities

 Additional time is necessary prior to issuing the construction subcontract Request for Proposal (RFP) in order to transition the approved MSA construction SOW to the HMIS SOW template and gain necessary approvals. This has resulted in a delay to subcontract award and follow-on construction fieldwork activities.

10.22.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-75. L-534 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	10
March	0	0	0	0	0	10



10.22.5 **Key Milestones**

Table B-76. L-534 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L-534-1020-A	L-534, Construction Contract: Award	4/29/21		5/5/21	-3
L-534-2010-B	L-534, Contractor Mobilization	7/29/21		8/3/21	-2

10.22.6 **Baseline Performance**

The L-534 critical path is comprised of schedule activities within the current HMIS PMB window. The critical path to "Construction Complete" starts with the finalizing/issuing the RFP and awarding a construction subcontract, then through construction mobilization and fieldwork activities to overlay the interior 200 East roads.

Baseline Performance available upon request.

10.23 L-603, Chip Seal Route 3N (Route 11A to Route 3)

Table-B-77. L-603 Schedule and Cost Performance

·		RENT MO			Acres .	FISCAL	YEAR TO	DATE					ONTRACT	TO DATE	-			ATC	OMPLETI	ON
BCW5	BCWP	ACWF	SV'	CV	BCWs	BCWP	ACWF	372	CV	BCWs	BCWF	ACWF	5V	CV	SPI	CPI	90	8.40	EAC	VAC
5 9.4	\$ 8.0	\$ 15.2	5 (1.4)	\$ (7.2)	\$ 15.67	\$ 133	5: 32.4	\$ (0.1)(5 (56.9);	1 15.6	\$ 15.5	5 32.4	\$ (0.1)	\$ (16.9)	0.00	0.48	2%	8AC 3 L37L4	\$ 13861	\$ (14.7)

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.23.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives included:

- Continued discussions with construction subcontractor on final invoicing for cancelled subcontract.
- Completing transition of the approved MSA construction SOW to the HMIS SOW template.

10.23.2 **90-Day Outlook**

Nothing to report.

10.23.3 Risks/Issues/Opportunities

Additional time is necessary to issue the construction subcontract Request for Proposal (RFP) in order to transition the approved MSA construction SOW to the HMIS SOW template and gain necessary approvals. This has resulted in a delay to subcontract award and follow-on construction fieldwork activities.

10.23.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-78. L-603 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	8
March	0	0	0	0	0	8



10.23.5 **Key Milestones**

Table B-79. L-603 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L603-1100	L-603, Rebid Construction Contract: Award	5/3/21		5/5/21	-2
L603-2010A	L-603, Contractor Mobilization and Traffic Control	7/12/21		7/13/21	-1

10.23.6 **Baseline Performance**

The L-603 Critical Path is comprised of schedule activities within the current HMIS PMB window. The critical path to "Construction Complete" starts with the finalizing/issuing the RFP and awarding a construction subcontract, then through Contractor mobilization and field work activities to chip seal Route 3N (Route 11A to Route 3).

Baseline Performance available upon request.

10.24 L-883, Chip Seal Route 10, SR-240 to WYE Barricade

Table B-80. L-883 Schedule and Cost Performance

		RENT MO				FISCAL YEAR TO DATE				CONTRACTIODATE BCWS BCWP ACWF 5V CV SPI CPI %6 \$ 110 \$ 110 \$ 241 \$ 50 \$ 910 \$ 100 \$ 651 \$ 255.								AT COMPLETION		
BCWS	BCWP	ACUF	SV.	CV	BCW5	BCWP	ACWP	5V	CV	BCWS	BCWF	ACWF	45	CV	SPI	CPI		BAC	EAC	VAC
9.0	\$ 74	\$ 12.5	\$ (1.6)	\$ (3.1)	\$ 15.0	\$ 15.0 [\$ 24.1	\$ 0.0	\$ (9.1)	\$ 11.0	\$ 19.0	\$ 241	\$ 0.0	\$ (9.1)	1.00	0.63	0.8%	\$ 1,798.9	\$ 1,031	5 (24.2

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.24.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, included:

• Completing transition of the approved MSA construction SOW to the HMIS SOW template

10.24.2 **90-Day Outlook**

Nothing to report.

10.24.3 Risks/Issues/Opportunities

 Additional time is necessary prior to issuing the construction subcontract Request for Proposal (RFP) in order to transition the approved MSA construction SOW to the HMIS SOW template and gain necessary approvals. This has resulted in a delay to subcontract award and follow-on construction fieldwork activities.

10.24.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-81. L-883 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	8
March	0	0	0	0	0	8



10.24.5 **Key Milestones**

Table B-82. L-883 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L883-1020-A	L-883, Construction Contract: A ward	5/3/21		5/5/21	-2
L883-2010-B	L-883, Contractor Mobilization and Traffic Control	7/12/21		7/13/21	-1

10.24.6 **Baseline Performance**

The L-883 Critical Path is comprised of schedule activities within the current HMIS PMB window. The critical path to "Construction Complete" starts with finalizing/issuing the RFP and awarding a construction subcontract, then through construction mobilization and field work activities to chip seal Route 10, SR-240 to WYE Barricade.

Baseline Performance available upon request.

10.25 L-888, 400 Area Fire Station

Table B-83, L-888 Schedule and Cost Performance

	CURI	RENT M	ONTH			FISCAL	YEAR TO	DATE			CONTRACT TO DATE						AT COMPLETION			
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWS BCWP ACWP SV CV SPI CPI %				BAC	EAC	VAC			
\$ 24.2	\$ 3.9	\$ 16.6	\$ (20.3)	\$ (12.8)	\$ 30.8	\$ 10.6	\$ 19.4	\$ (20.2)	\$ (8.8)	\$ 30.8	\$ 10.6	\$ 19.4	\$ (20.2)	\$ (8.8)	0.34	0.55	9.5%	\$ 111.6	\$ 89.0	\$ 22.7

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.25.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Continued L-888 NOC preparation activities
- Transmitted Acquisition Planning Notification to DOE-RL.

10.25.2 **90-Day Outlook**

Nothing to report.

10.25.3 Risks/Issues/Opportunities

• L-888 Construction RFP was put on hold; cannot obtain pricing until DOE-RL issues the L-888 Task Order to HMIS. The construction services requisition is placed back to pending.

10.25.4 **Project Risk Assessment**

Table B-84. L-888 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	1	9
March	0	0	0	0	1	9

Table B-85. L-888 Kev Risks

	Unmitigated Risk Impacts	Asses	sment	Comments						
	Ommugated Nisk impacts	Month	Trend	Comments						
L888 - 400 Area Fire Station - Project Risks										

Explanation of major changes to the program monthly stoplight chart:

Project risks are currently being evaluated as Reliability Project Task Orders are received. There are no open key risks identified for project L-888. Risks continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

L-888 Construction RFP was put on hold; cannot obtain pricing until DOE-RL issues the L-888 Task Order to HMIS. The construction services requisition is placed back to pending.

Realized Risks (Risks that are currently impacting project cost/schedule)



	Ilumiticated Dials Impacts	Asses	ssment	Comments
	Unmitigated Risk Impacts	Month	Trend	Comments
		L888 - 400	0 Area Fire	Station - Project Risks
No Realized Risks in	n March.			
	Critical Risks (Severe impact to ulti	mate goals	s/objective	es. Enforceable or incentivized milestone completion missed.)
No Critical Risks in	March.			
	High Risk Threat V	Value (Re	coverable	slip to enforceable or incentivized milestone)
No High Risk Threa	ts in March.			
	UnassignedRis	ks (Pendi	ing owne	rship of identified risks/opportunities)
No unassigned risks	identified in March.			

10.25.5 **Key Milestones**

Table B-86. L-888 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L-888	CD-0 Approval	3/15/21	2/22/31		
L-888	NOC Approval	7/26/21		10/15/21	-81 days

10.25.6 **Baseline Performance**

The L-888 critical path is comprised of schedule activities within the current HMIS Performance Measurement Baseline (PMB). The critical path to construction contract award starts by issuing a revised Request for Proposal (RFP). The critical path continues through proposals receipt and evaluation, consent package preparation and DOE review, and finally construction contract award.

Baseline Performance available upon request.



10.26 L-907, Fleet Complex Site Development

Table B-87. L-907 Schedule and Cost Performance

Langue Com	CCRG	CENT MR	NTH		Same and	FISCAL	YEAR TO	D DATE	Learn will	Santa Marcara	active so		CONTRACT	TO DA	E			ATC	OMPLETE	ON
BCWS	BUTTE	ACNT	sv.	CV	BCWS	BCWF	ACTO	27.	CV	BCWS	BCWP	ACWE	5V	CV	SPI	CP1	. 56	BAC	EAC	T'AC
\$ 254.8	\$ 100.7	\$ 105.5	\$ (128.1)	\$ 32	\$ 287.5	1 249.2	\$ 120.7	\$ (38.3)	\$ 128.5	\$ 257.5	\$ 249.2	\$ 120.7	\$ (38.5)	\$ 128.5	0.87	287	13%	\$ 1,545.7	\$ 1,940.3	\$ (91

CM Schedule Variance:

CM SV is due to the Contractor being unable to mobilize as planned. A BCR is planned in April to align BCWS with proposed Contractor Schedule. Contractor has revised their schedule logic and has re-sequenced activities. As a result, SV should be recovered in full.

CM Cost Variance:

CM CV is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.26.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives included:

- HMIS Contract Awarded
- A/E activities initiated in March

10.26.2 **90-Day Outlook**

Nothing to report.

10.26.3 Risks/Issues/Opportunities

• No risk, issues, or opportunities were realized this period.



10.26.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-88. L-907 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	8
March	0	0	0	0	0	8

10.26.5 **Key Milestones**

Table B-89. L-907 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L907-2040	L-907, Develop 30% Design	5/24/21		5/10/21	8
L907-2050	L-907, 30% Design Submittal	5/25/21		5/10/21	9
L907-3000	L-907, Develop 60% Design	9/22/21		9/9/21	7
L907-3010	L-907, 60% Design Submittal	9/23/21		9/9/21	8
L907-3020	L-907, HMIS & A/E Formal Design Review - 60% Design	9/30/21		9/22/21	5

10.26.6 **Baseline Performance**

The L-907 Critical Path is comprised of schedule activities within the current HMIS PMB window. The critical path to "Construction Complete" currently starts with Develop and Design 30% Submittal. The critical path continues through Definitive Design 60% Design Submittal and



HMIS & A/E Formal Design Review before beginning PCB activities to Fleet Complex Site Development.

Baseline Performance available upon request.

10.27 L-934, MSC Office Space Gap Reduction - 200E

Table B-90. L-934 Schedule and Cost Performance

	CURE	ENT MO	NTH	-		FISCAL	YEAR TO	DATE	17	-			ONTRACT	TO DATE				ATO	OMPLETE	ON
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	ST	CV	SPI	CPI	16	BAC	EAC	VAC
\$ 344.5	\$ 626.3	\$ 630.5	\$ 731.3	\$ (4.2)	\$ 450.5	\$ 704.5	\$ 693.6	\$ 254.0	\$ 11.0	\$ 450.5	\$ 704.5	\$ 693.6	\$ 254.0	\$ 11.0	1.56	1,02	35%	\$ 2,031.5	\$ 2,031.0	\$ 0.5

CM Schedule Variance:

CM schedule variance is due primarily to subcontractor procurement of materials associated with and realignment and execution of schedule activities with more cost and performance than originally planned.

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.27.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• Completed site clearing and grubbing, imported and placement of fill material, trenched and installed electrical conduit and conductor from pole to transformer vault, set concrete vault and transformer pad, installed parking lot base and top course materials, initiated and



completed significant percentage of sanitary water line trenching and pipeline installation, and constructed electrical racks.

• Implemented BCR to align baseline schedule with subcontract construction schedule and associated support resources.

10.27.2 **90-Day Outlook**

Nothing to report.

10.27.3 Risks/Issues/Opportunities

- Potential for encountering rad contaminated soil during sanitary sewer line trenching over deeply buried process sewer line
- Implemented L-933 Lessons Learned to ensure field location of transformer vault and pad is safe distance from trailer

10.27.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-91. L-934 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	10
March	0	0	0	0	0	10

10.27.5 **Key Milestones**

Table B-92. L-934 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.27.6 **Baseline Performance**

The L-934 critical path to Project Complete begins with Install Waterline and continues through Construction Execution and Project Closeout with a Project Complete date of August 10, 2021.



Baseline Performance available upon request.

10.28 L-933, Install Mobile Office Trailers - 200E

Table B-93. L-933 Schedule and Cost Performance

	CURR	RENT MO	NTH			FISCAL Y	EAR TO	DATE				- 00	NTRACT	TO DATE				ATC	OMPLETI	ON
BCWS	BCWP	ACWE	5¥	CV	BCWs	BCWP	ACUT	5V	CV	BCWS	BCWF	ACWP	5V	CV	571	CPI	. 54	BAC	EAC	VAC
\$ 12.9	\$ 91	\$ 31.8	\$ (3.3)	\$ (22.7)	\$ 16.4	\$ 91	\$ 33.9	\$ (7.2)	5 (24.7)	\$ 16.4	3 9.1	\$ 33.9	\$ (7.2)	3 (24.7)	0.56	0.27	34%	\$ 17.0	3 46.2	\$ (29.2)

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.28.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Continued development of as-built drawings
- Coordinating execution of warranty repair work

10.28.2 **90-Day Outlook**

Nothing to report.



10.28.3 Risks/Issues/Opportunities

- Received authorization to work project closeout February 22.
- Identified need for warranty repair from trailer manufacturer. The lighting in one of the sections of one of the trailers does not work.
- Frozen pipe occurred in MO2278 trailer mid-February. Investigation as to the cause was ongoing.

10.28.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-94. L-933 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	0
March	0	0	0	0	0	0

10.28.5 **Key Milestones**

Table B-95. L-933 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.28.6 **Baseline Performance**

The L-933 critical path begins with Final Submittals, and then follows with Preparing Red Lines/As-Built. The critical path continues through Drawings in IDMS and File Transfers, with a Project Complete date of April 12, 2021.

Baseline Performance available upon request.



10.29 L-796, Key Facilities Roof Replacements

Table B-96. L-796 Schedule and Cost Performance

Service	CUR	RENT!	MON	TH			Carl Street	FESCAL	YEAR TO	DATE	10000				ONTRACT	TO DAT	E			AT C	OMPLET	ION
BCWS	BCWP	ACWP		W.	. 0	N	BCWS	BCWP	ACWP	SV	CV	BCW5	BCWP	ACWP	SV	CY	SPI	CPI	. 54	BAC	EAC	VAC
\$ 14.3	\$ 6.0	\$ 17.7	\$	(8.3)	\$ (11.8)	5 14.1	\$ 6.0	\$ 20.2	\$ (8.3)	\$ (14.2)	\$ 143	\$ 6.0	\$ 20.2	\$ (8.3)	\$ (14.1)	0.42	6.39	956	\$ 1,585.2	\$ 1,549.8	\$ 35.4

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.29.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Conducted restart meeting with subcontractor and project personnel on 2/24.
- Conducted site visit with EU for buildings 251W, 274E, MO722, 2220E, & 2719EA on 3/10.
- Project began receiving initial submittals from construction subcontractor on 3/17. 2 of 13 received as of 3/21.

10.29.2 **90-Day Outlook**

Nothing to report.



10.29.3 Risks/Issues/Opportunities

No risk, issues, or opportunities were realized this period.

10.29.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-97. L-796 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	3
March	0	0	0	0	0	3

10.29.5 **Key Milestones**

Table B-98. L-796 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance
L796-5310	L-796, Mobilization	5/11/21		5/11/21	0
L796-5470	L-796, Demobilization	9/30/21		9/20/21	7

10.29.6 **Baseline Performance**

The L-796 critical path to project complete starts with Mobilization, proceeds to MO285 then on through the remaining construction and closeout activities. Currently the project is showing a finish date for PMB scope of September 20, 2021 which is 7 days ahead of the baseline, but in reality is right on schedule because MO412 scope will not be performed and is planned to be removed by a BCR in April.

Baseline Performance available upon request.



10.30 L-921, Telecom Hut at Met Tower

Table B-99. L-921 Schedule and Cost Performance

1	CURR	ENT MO	NTH			FISCAL	YEAR T	O DATE				- 0	ONTRACT	TO DATE				ATC	OMPLETI	ON I
BCRS	BCMP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CL.	BCWS BCWP ACWP SV CV SPI CPI %			- 54	BAC	EAC	VAC				
\$ 427.3	\$ 258.9	\$ 265.5	\$ (1683)	\$ (6.6)	\$ 577.0	\$ 277.2	\$ 294.6	\$ (299.8)	\$ (17.4)	\$ 577.0	\$ 277.2	\$ 294.6	\$ (299.8)	\$ (17.4)	0.48	0.94	38%	5 722.4	\$ 685.3	\$ 372

CM Schedule Variance:

The unfavorable CM SV is due to finishing site prep and placing the Telecom Hut later than planned due to the delays from February with snow on site. We haven't quite recovered from that event and are working with the subcontractor to make up the delay.

CM Cost Variance:

CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.30.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Contractor continued site preparation activities.
- Design for the grounding system for the tower and hut is complete.

10.30.2 **90-Day Outlook**

Nothing to report.



10.30.3 Risks/Issues/Opportunities

• Based on progress, there is a good opportunity to recover schedule and place the hut on foundation in the beginning of April.

10.30.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-100. L-921 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	8
March	0	0	0	0	0	8

10.30.5 **Key Milestones**

Table B-101. L-921 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.30.6 **Baseline Performance**

The L-921 critical path begins with Task 1 (Site Preparation), and continues through Task 2 (Installation of Telecom Hut), Task 3 (Fiber Optic Cable Installation), Acceptance Testing, and Project Closeout with a Project Complete date of July 8, 2021.

Baseline Performance available upon request.

10.31 L-919, Emergency Radio Upgrade

Table B-102. L-919 Schedule and Cost Performance

CURRENT MONTH FISCAL YEAR TO DATE				CONTRACT TO DATE						AT COMPLETION										
BCWS	BCWP	ACTO	37.	CA.	BCW5	BCWP	ACTO	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CH	- 56	BAC	EAC	TAC
\$ 22.4	\$ 83	\$ 152.1	\$ (141)	\$ (168.8)	5 54.4	\$ 31.4	5 1749	\$ (250)	\$(143.4)	\$ 54.4	5 314	\$ 174.9	\$ (23.0	\$ (145.4)	0.58	0.18	25	\$ 2,382.6	\$ 3,357.5	\$ (974.9)



CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

Unfavorable CM cost variance is due to late invoices (\$105k) from subcontractor for work that was performed last year and under MSA contract. We are working on cost transfers to move this invoice cost back to MSA.

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

Unfavorable CTD VAC is due to the Wildflower fixed price contract value coming in much higher, approximately \$800K, than budgeted. A BCR will be implemented to add additional budget.

10.31.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

- Completed approval of design and development of channel plan.
- Continued installation/configuration of the ES-LAN.
- Initiated cybersecurity review.

10.31.2 **90-Day Outlook**

Nothing to report.

10.31.3 Risks/Issues/Opportunities

• No risk, issues, or opportunities were realized this period.

10.31.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.



Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-103, L-919 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	14
March	0	0	0	0	0	14

10.31.5 **Key Milestones**

Table B-104. L-919 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.31.6 **Baseline Performance**

The L-919 begins with Install Core, which is being driven by project L-921, Met Tower Hut Installation. The critical path continues through construction Acceptance Tests.

Baseline Performance available upon request.

10.32 L-819, High Capacity Fiber Optic (300 Area)

Table B-105. L-819 Schedule and Cost Performance

Project is still in planning phase

		(CURR	ENT	MO	HT			FISCA	L YEAR I	O DATE	33				CONTRACT	TO DATE				AT C	OMPLETE	ON
BC	WS.	BU	W.P	AC	WP.	SV	CV	BCWS	BCWP	ACWP	ST	CV	BCWS	BCWP	ACUP	SV	CV	SPI	CPI	. 16	BAC	EAC	VAC
\$	37.2	\$	¥.	5	0.3	\$ (37.2)	\$ (0.3	\$ 50	\$ -	\$ 0.4	\$ (50.7)	\$ (0.4)	\$ 50.7	3 -	2 0.4	\$ (50.7)	\$ (0.4)	0.00	0.00	0%	5 1662	\$ 153.0	\$ 13.2

CM Schedule Variance:

CM schedule variance is within threshold

CM Cost Variance:

CM cost variance is within threshold



Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold

CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.32.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

• None to report

10.32.2 **90-Day Outlook**

Nothing to report.

10.32.3 Risks/Issues/Opportunities

• N/A

10.32.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-106. L-819 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	14
March	0	0	0	0	0	14



10.32.5 **Key Milestones**

Table B-107. L-819 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.32.6 **Baseline Performance**

N/A – Project is still in planning phase

Baseline Performance available upon request.

10.33 L-937, Gable East Footprint Reduction (Phase 1)

Table B-108, L-937 Schedule and Cost Performance

	CURRENT MONTH FISCAL YEAR TO DATE			CONTRACT TO DATE							AT COMPLETION									
BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	16	BAC	EAC	VAC
\$ 324.7	\$ 45.1	\$ 40.4	\$ (279.6)	\$ 4.6	\$ 491.8	\$ 143.8	5 53.5	\$ (348.0)	\$ 90.3	\$ 491.8	\$ 143.8	\$ 53.5	\$ (348.0)	\$ 90.3	0.29	2.69	7%	\$ 2,076.2	\$ 2,062.8	\$ 13.4

CM Schedule Variance:

The unfavorable CM schedule variance is due to the project continuing to recover from the pause at contract transition. The project team implemented the prior months' work scope, and did not perform the baseline work scheduled in Fiscal Month March. Authorization to perform work was received on February 8, two weeks after the HMIS contract had begun. The project has also experienced delays with RSC design tasks, with the Engineering Change Request (ECR) development taking longer to complete, and is holding up construction activities that were scheduled to start in March. ECRs are completing in April, and schedule is expected to be partially recovered during construction.

CM Cost Variance:

The CM cost variance is within threshold

Contract-to-Date (CTD) Schedule Variance:

CTD schedule variance is within threshold



CTD Cost Variance:

CTD cost variance is within threshold

Variance at Completion:

CTD VAC is within threshold

10.33.1 **Key Accomplishments**

Significant accomplishments and progress towards completion of goals and objectives, for the month of March, included:

 Continued Engineering Change Request (ECR) development for Solar Array, Hanford Site Emergency Alerting System (HSEAS), Emergency Radios, Radio Paging, and Seismic Station.

10.33.2 **90-Day Outlook**

Nothing to report.

10.33.3 Risks/Issues/Opportunities

The project milestone to turn off the generator by May 27, 2021 is driven by one-year of
operation of the temporary generator. Review of maintenance and operation records has
identified a non-compliance issue. A meeting with mid-to-senior management to brief them
on this situation and allow them to decide the operational future of a generator on Gable
Mountain is suggested.

10.33.4 **Project Risk Assessment**

Project risks are currently being evaluated as Reliability Project Task Orders are received.

Risks will continue to be monitored per HMIS-PLN-RIM-42375, Project Risk Management Plan.

Table B-109. L-937 Risk Assessment

Period	Realized	Key	Opened	Closed	Unassigned	Total Risks
February	0	0	0	0	0	5
March	0	0	0	0	0	5



10.33.5 **Key Milestones**

Table B-110. L-937 Key Milestones

Project	Description	Due Date	Actual Date	Forecast Date	Variance

10.33.6 **Baseline Performance**

The L-937 critical path to Project Complete begins with Seismic Stations Material/Equipment Solicitation. The critical path continues through Seismic Stations Material/Equipment Purchases and Seismic Stations Equipment Construction. This has slipped because the ECR slipped two-weeks. This is followed by work package closeouts with a Project Complete date of August 31, 2021.

Baseline Performance available upon request.



Appendix A

Contract Performance Reports

Format 1 – Work Breakdown Structure

Format 3 – Baseline

Format 5 – Explanation and Problem Analysis



1.0 FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE

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				PC	RMAT 1 - WORK	BREAKDOWN	STRUCTURE	1,000				(1981)	L. CTOP CLEE	
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6001.04.02 - Transportation		52	63	1		52	52	52	- 5	0	52	405	432	127
4001.04 03 - Safeguards & Security	Č	4,655	4.713	5,397	- 15	(572)	3,067	9.067	38,506	0	13,459	573,235	542,533	19,258
4001.04.54 - Emirgences II. First for	racetth.	3,969	2,969	3,476	- 1	1.90	3,730	5,730	(6,000	0.0	541	291,240	289,600	1,307
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4001.04.67 - Business Services	1112	996	916	790	. 0	- 136	1,768	1,766	1.495	. 0	376	118,520	138,929	(909)
4001.04.118 - Real Property Asset M		1,433		1,316		129	2,572	2.576	2,416	6	352	135,908	141,245	5,633
4001.04.09 - Environmental Stewar 4001.04.00 - Environmental Integra		1,746	1.746	1,006	- 0	720	899 8,360	1,100	2,579	0	286	265,811	134,330	1,401
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6001.07.01 - MF - Water System		199	350	189	0.00	100	190	286	818	17949	IND.	5,910	3,904	70,04
600 L 07.02 - WF - Singer System.	-	36	20	23:	116		- 66	21	. 26	6479	(2)	199	160	127
4001.07.03 - MP - Electrical System	1	3.307	528	455	09018	73	1.781	1.112	900	(1,676)	362	6,313	7,577	(0.253)
ACCULATION - MF - Roads & livewell	i .	27		17		[10]	- 6	- 61	84	[1]	(30)	5,207	9,298	(34)
skit of the MF - facility System		286	(16)	172	(\$606)	946)	10	175	196	(34)	80	3,580	3.557	. 16
4001.01 06 - RF - Natwork & Twico	on system	564	34.70E	197	. 0101	(14t) 1/878	557	175	229 45,368	18,650	-1,000	4,660 1,882,817	3,626	178,000
QUN 4 Subtenul 4001.05.01 - DOV level & common Pr	a dalled formed	27,306	11	10/30	(2,000)	11	.01,585	47,656	49,386	16,676	10	2,416	2,429	100
CLIM S Subtanal	Market State Comment	10				18	. 29	19		. 0	19	2419	2,409	10
406 L 07 G1 - IPF - Water System		123		139	GHI	-000	1.175	7.351	1,792	191	0.5	16,075	19,224	(13.9)
epitation and section leaders		181	80.	140	- (80)	(81)	357	\$18	116	11400	(14)	3,100	3,466	18%
406 L.07 DS - RP - Pacify System		. 16	526	100	301	(0)	451	300	650	254	12	2,009	2,008	- 1
4001.01.06 - 69 - Network & Teleo	om System	427	29	Ni.	(148)	- 65	\$79	377	206	1100	(67)	688	650	- 97
4001.07.57 - MP - Out Your Summe	ry Level Planning Parkage	. 0	D	. 0		- 4		. 0	- 2	0	. 0	338,690	338,514	316
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+ MATOIN		11,791	33,963	52,007	0.810	(0.975)	67,611	66,150	68,790	(8,181)	4,790	8,802,296	3,325,151	129,060
C. MANAGEMENT RESERVE							- 1					· 4		
E TOTAL		51,751	25,962	52,957	37,000	0.370	47,800	94,550	15,756	15201	4.760	3,952,256	3,925,985	125,050
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 WHERNCE AGUSTOMENT NOTAL COMPRACT VERNANCE 												40000	1,825,855	129,650
												1,802,256.		



2.0 FORMAT 3, DD FORM 2734/3, BASELINE

						CONTRA	CT PERFOR	MANCE RE	PORT					APPROVED	
							ORMAT 3 -	BASELINE		_	ARS IN Thou	sands	OMB I	No. 0704-0188	
1. Contractor		2. Contract				3. Program				4. Report Pe	riod				
a. Name		a. Name				a. Name				a. From (202	21/2/22)				
Hanford Mission Integr		Hanford Mission	Essentiai Se	rvices Conti	ract		ission Essen	tiai Service	Contract	<u> </u>					
b. Location (Address a Richland, WA 99352	na zip Coae)	b. Number 89303320DEM00	0001			b. PhaseOperations				b. To (2021/	03/21)				
Kicilialiu, WA 55552			10031												
		c. TYPE CR. CPAF & IDIO		d. Share R N/A	atio	No X	CCEPTANCE								
5. CONTRACT DATA		CR, CPAF & IDIQ		IN/A		INO X	res								
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h. CONTRACT START D	DATE	i. CONTRACT DE	FINITIZATIO	N DATE	j. PLANNE	D COMPLETI	ION DATE			NTRACT	I. ESTIMATEI	D COMPLETIC			
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2020/8/17		2019/1	.2/5			2030/8	8/16		203	0/8/16		2030/8/16			
6. PERFORMANCE DAT	TA .														
							BUD	GETED COS	T FOR WOR	K SCHEDULE	(BCWS) (No	n-Cumulativ	e)		
ITEM				Six	Month For	ecast By Mo	ecast By Month			Remai	ning Forecast	By Month &	Fiscal Year		
	BCWS														
	CUMULATIVE TO	BCWS FOR	APR	MAY	JUN	JUL	AUG	SEP		ВР	OP1	OP2		UNDISTRIBUTED	
	DATE	REPORT PERIOD	II.	FY21	FY21	FY21	FY21	FY21	FY22	FY23-25	FY25-28	FY28-30		BUDGET	TOTAL BUDGET
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
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MEASUREMENT															
BASELINE (Beginning															
of Period)															
	35,018	32,759	39,256	33,301	31,887	38,676	32,336	47,321	293,227	876,528	946,155	1,212,603	l 0	198,478	3,817,546
b. BASELINE	,	7,00	,	,	. ,		. ,	,	, -	,	,	, ,		1.,,,,,,,	-,- /
CHANGES															
AUTHORIZED DURING															
REPORT PERIOD															
	32,792	(32,759)	37	318	336	179	91	158	113	0	0	(519)	0	(15,995)	(15,250)
c. PERFORMANCE													1		
MEASUREMENT													1		
BASELINE (End of													1		
Period)													1		
	67,810	0	39,293	33,619	32,223	38,854	32,427	47,478	293,340	876,528	946,155	1,212,085	0	182,483	3,802,296
7. MANAGEMENT													1		
RESERVE															0
o TOTAL	67,810	0	39,293	33,619	32,223	38,854	32,427	47,478	293,340	876,528	946,155	1,212,085	0	182,483	3,802,296
8. TOTAL	67,810	U	59,293	55,619	32,223	36,854	32,427	47,478	293,340	8/6,528	946,155	1,212,085	1	182,483	3,802,296

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name	a. Name	a. Name	a. From
Hanford Mission	Hanford Mission Essentia	l Hanford Mission Essential	(2021/02/22)
Integration Solutions, LLC	Services Contract(HMESO	Services Contract(HMESC)	(2021/02/22)
b. Location (Address and	b. Number-8 9303320DEM00031	b. Phase - Operations	
Zip Code) PO Box	c. Type CR, d. Share	c. EVMS Acceptance	b. To (2021/03/21)
Richland, WA 99352	CPAF,IDIQ Ratio	NOX YES	
Evaluation			

3.0 FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS

(\$K) - March	BCWS		BCWP A		CWP	SV\$	SV %	CV \$	CV %	SPI	CPI	
Current:	\$	32,792	\$	29,982	\$ 3	32,957	\$ (2,810)	-8.6%	\$ (2,975)	-9.9%	0.91	0.91
Cumulative:	\$	67,811	\$	64,550	\$ 5	59,790	\$ (3,261)	-4.8%	\$ 4,760	7.4%	0.95	1.08
		BAC		EAC	V	AC\$	VAC %	TCPI				
At Completion:	\$3	,802,296	\$3	,825,355	\$ (2	23,059)	-0.6%	0.99				

Explanation of Variance / Description of Problem:

Current Month (CM) Cost Variance (CV):

The unfavorable Current Month Cost Variance is primarily driven by:

- (-\$5,552K) 4001.01.01 Contract Transition Transfer of transition costs from MSA to HMIS CLIN 1. Budget was time phased for February but there was a delay in the transfer.
- (+\$1,198K) 4001.04.06 Information Technology & Mgmt Savings
 associated with the majority of the Information Technology scope and all
 of the records scope transferring to North Wind Services rather than
 internal labor. Other variances include software license budget being
 level-loaded rather than time-phased for the correct period in which the
 invoice will be received.

Impacts – The unfavorable CM CV is primarily due to cost being incurred in March but budget planned in the prior month.

Corrective Action – N/A.

Current Month (CM) Schedule Variance (SV):

The unfavorable Current Month Schedule Variance is primarily driven by:

- (-\$851K) 4001.04.12 General Performance Requirements Vendor experiencing COVID impacts due to supply chain issues and workforce outages that delayed Hazmats March delivery. The new estimated time of arrival is mid to late April.
- (-\$630K) 4001.07.01 Water Systems Project L-781 181D Vertical Turbine Pumps due to the delay of the A/E's 30% Design approval milestone payment. This milestone was

1. Contractor	2. Contract	3. Program	4. Report Period
a. Name	a. Name	a. Name	a. From
Hanford Mission	Hanford Mission Essential	Hanford Mission Essential	(2021/02/22)
Integration Solutions, LLC	Services Contract(HMESC	Services Contract(HMESC	(2021/02/22)
b. Location (Address and	b. Number-8 9303320DEM00031	b. Phase - Operations	
Zip Code) PO Box	c. Type CR, d. Share	c. EVMS Acceptance	b. To (2021/03/21)
Richland, WA 99352	CPAF,IDIQ Ratio	NOX YES	
Evaluation			

planned to complete near the end of March, but is now forecast to complete the beginning April.

• (-\$801K) 4001.07.03 Electrical Systems - Project L-789, Priorit T&D Sys Wood PP Test & Replace, having low likelihood planning and unplanned cutovers as well as Titan crews being dispatched to support power outages in Oregon.

Impacts – N/A.

Corrective Action –N/A.

Cumulative To Date (CTD) Cost Variance (CV):

The favorable Contract To Date Cost Variance is primarily driven by:

- (+\$1,867K) 4001.03.01 Legacy Benefit Plans Less claims than planned and underrunning of Administrative costs for Fernald, Mound, and Rocky Flats Legacy Benefit Plans.
- (+1,131K) 4001.04.06 Information Technology & Mgmt Savings associated with the majority of the Information Technology scope and all of the records scope transferring to North Wind Services rather than internal labor. Other variances include a delay in hiring for Material Difference FTEs causing a FYTD underrun, and the software license budget being level-loaded rather than timephased for the correct period in which the invoice will be received.
- (-\$1,439) 4001.04.03 Safeguards & Security Offset by scheduled overtime cost not budgeted.

Impacts – N/A.

Corrective Action – N/A.

<u>Cumulative To Date (CTD) Schedule Variance (SV):</u>

The unfavorable Contract To Date Schedule Variance is primarily driven by:

• (-\$851K) 4001.04.12 – General Performance Requirements - Vendor experiencing COVID impacts due to supply chain issues and workforce outages that delayed Hazmats March delivery. The new estimated time of arrival is mid to late April.

1. Contractor	2. Contract	3. Program	4. Report Period		
a. Name	a. Name	a. Name	a. From		
Hanford Mission	Hanford Mission Essential	Hanford Mission Essential	(2021/02/22)		
Integration Solutions, LLC	Services Contract(HMESC	Services Contract(HMESC	(2021/02/22)		
b. Location (Address and	b. Number-8 9303320DEM00031	b. Phase - Operations			
Zip Code) PO Box	c. Type CR, d. Share	c. EVMS Acceptance	b. To (2021/03/21)		
Richland, WA 99352	CPAF,IDIQ Ratio	NOX YES			
Evaluation					

- (-\$1,670K) 4001.07.03 Electrical Systems Project L-789, Priorit T&D Sys Wood PP Test & Replace, having low likelihood planning and unplanned cutovers as well as Titan crews being dispatched to support power outages in Oregon.
- (-\$422K) 4001.07.06 Network & Telecom Systems Project L-819, Conceptual Design, is due to the Design Authority not being able to work on the project until April 12th. Project L-921, Construction, is due to the Subcontractor mobilizing on site a few weeks later than planned due to too much snow on site.

Impacts - N/A

Corrective Action – N/A.

Variance at Complete (VAC):

The unfavorable VAC is primarily due to HMIS material differences (MDs) that were identified during the due diligence process. HMIS submitted Contract Transition Deliverable CTD0004, "Listing of Material Differences and Pre-Existing Conditions" to RL on January 22, 2021. Also contributing to the unfavorable VAC are scope pending future BCRs (~\$7M).

Impacts – Overruns will continue until MDs are resolved with DOE-RL. The spending forecast (EAC) will highlight the divergent data between the contract proposal and MDs until resolution is approved.

Corrective Action - HMIS will continue to work with RL on MDs. Process April BCRs to account for RFS, COVID-19, and CLIN 8 to CLIN 4 transfer of scope.

Negotiated Contract Changes:

The Negotiated Contract Cost for March 2021 is assumed to be \$3,760.2M.

Changes in Estimated Cost of Authorized Unpriced Work:

The Authorized Unpriced Work (AUW) for February 2021 is \$42.1M based on Material Differences (MDs).

Changes in Estimated Price:

1. Contractor	2. Contract	3. Program	4. Report Period		
a. Name	a. Name	a. Name	a. From		
Hanford Mission	Hanford Mission Essential	Hanford Mission Essential	(2021/02/22)		
Integration Solutions, LLC	Services Contract(HMESC	Services Contract(HMESC	(2021/02/22)		
b. Location (Address and	b. Number-8 9303320DEM00031	b. Phase - Operations			
Zip Code) PO Box	c. Type CR, d. Share	c. EVMS Acceptance	b. To (2021/03/21)		
Richland, WA 99352	CPAF,IDIQ Ratio	NOX YES			
Evaluation					

The Estimated Price for March 2021 is \$4,077.0M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$3,825.4M and fee totaling \$251.6M. The estimated fee includes assumed ~7% of Fee from CLINs 7&8 in the amount of ~\$39.9M. The fee is depended on Task Order (TO) negotiations, and will be updated as necessary when TOs are definitized.

Changes in Undistributed Budget:

The UB for this reporting period is \$182.5M.

Changes in Management Reserve:

The Management Reserve (MR) for this reporting period is \$0M.

Differences in the Baseline:

This reporting period the Baseline began at \$3,817.5M.

The following BCRs were implemented:

- BCR-HMS-21-003 Align Reliability Projects and Other CLIN 4 AUW Scope with FY21 Execution Strategy.
- BCR-HMS-21-004 Change Responsible Org and Funding Type for H-Projects (H-002 & H-006).
- BCR-HMS-21-005 Establish New Control Account from UB for Traffic Management.
- BCR-HMS-21-006 Align PMB with Submitted Curation Services and Collections Management Proposal.
- BCR-HMS-21-010 Update Program Log for Contract Modifications P00047, P00050, P00051, P00052, P00054, and Letter 21-ISD-000955.

Best/Worst/Most Likely Management Estimate at Completion (MEAC):

The Best Case MEAC assumes the completion of the approved work scope at the current negotiated contract value consistent with the Contract Budget Base \$3,802.3M. The Most Likely MEAC reflects the EAC including MR, when established \$3,825.4M. The Worst Case Scenario assumes a 5 percent increase to the Most Likely MEAC case scenario \$4,016.6M.



Appendix B

Reliability Project Contract Performance Reports

Format 1 – Work Breakdown Structure

Format 3 – Baseline

 $Format \ 5-Explanation \ and \ Problem \ Analysis$



1.0 FORMAT 1, DD FORM 2734/1, WORK BREAKDOWN STRUCTURE

				300	CONTRACT PE BMAT 1 - WORK			.00	LARS OF Thomas	eb.			APPRICATED IN EXTENSION			
1: CONTRACTOR	D. CONTRACT				E. PROSAAM	***********	A PERSONAL PROPERTY.		A REPORT PERIO	0		-	- rincine			
a NAME	le NAME				a. WANT				a. From							
Hardard Mission Integration Sci-		Cartrad			Hardard Minner	Consection Service	es Contract		3522 / 80/ 33							
LOCATION (Address and Eq. C				b. PHASE		Total Control	b. Te									
Richland, WA 99353	PRINTED CEMBERS				Oserstiens				2003 / 105/03							
	e, TYPE		IN SHARE RA	100	IL EVMI ACCEPTANCE				and, rever							
	CPMF & GDVQ		M/A	110	No. 1 No.											
S. CONTRACTIGATA	and a set		76.5		pre 1											
* GHANTITY	4 STRAKE	an court of	Se TRECET	N. TARREST PRICE		E ESTREATED P	100	le. contract of		e. ettimated	COLUMN 1-19	L DATE OF OTEL	Total Total			
a.queenur	Negotia/teb cost	AUTHORIZE	O CHAMBOOD ONE	PROFIT/IEE	pe, sweeper years.		C. ESHMANES P		g. townserror		CEUNG	UNITAL I	E MARK OF GUILD	pro-		
203	319(313	\$190,943 \$10,945			1100	000	3491	CHE S	165	301	311	216	N/	N-		
S. ESPIMATED COST AT COMPLE	-		•			X. AUTHORIZED	CONTRACTOR I	EPRESENTATIVE		-						
	11 77		CONTRACT S	COURT BASE (2)	VANIAN	CT (5)	a. NAME had, 5	Trys. Mildelle Det	ref		n. TITLE					
							Wite	roen, Robert C			. Wes	oldent & General	Manager			
a. BEST CASE	\$365,728		-				s. SOGMATURE				A DATE SIGNED	P.S.				
A. WORST CASE	\$402,417						Marketon Marketon	T WE SHOW IN	we between	-	0.5 (310,000,000)					
E. MOST LIKELS	5386,016	5 500,016 905,736 (2,260)														
B. PERFORMANCE DATA				Sign man	C	115			C. Communication		•	-11	Automotive to			
0.07/10/10/10/10/10/10				Current Perio	4 :				Comulative to Dat				At Completion			
		Biedget	ed Cost	Actual Cost	Varie	900	Budget	art Cost	Armal Cost	Tar	larece					
		Wash	Mork	mork.			Mark	Work	Werk	- 9						
	tern.	Tcherlolut.	Performed	Performed	Schedule	Cost	Schooluled	Parterned	Porformed:	Schedule	Contr	Rudgeted	Astimeted	Variance		
	(1)	m	IN	141	196	100	in	00	190	(180)	(30)	(III)	(13)	0.0		
 WORK BREAKDOWN STRUCT) 	UNE ELEMENT															
4005 OT CL. IAT Water System		791	221	181	975	110	760	281	218	[104]	20	5,810	5.000			
4000,07 XZ - IRF - Sewer System		34	- 21		OF	1	44	27		. (17)	- 01	133	100	(2)		
4000,07.07 - IRF - Destrice leve		1,329	529		(8016	79		1.111	800	11,479	352	6,525	7,577	11.23		
GODS OF DA - IRP - Reads & Green		27	22		.06	(13	45	- 20		- 120	129	1,212	3,291	137		
4000,07.05 - 187 - FacRty Senters		286	100		3300	145	345	171		-04		3,540	8,007	21		
4000,07.06 - IRP - Notwork & Tol	Room Salare	384	33		(3316	(048	597	175		1422	(3)	4,810	5,008	(34)		
GR4 Subbid		2,981	81.7	1.676	(3,994)	1199	8,887	3,919	1,479	(2,888)	386	13,875	28,010	12,221		
400LOT 25 - IRF - Miles System		623	817	198	ONE	1263	1,179	1,797	1.790	349		18,870	36,221	(13)		
4005, GT ES - 187 - Diestrical Syri	New York	131		140	1906	102	257	118	375	1122	(36)	2,356	2.40	.00		
8000, 07 DS - IRF - Feb lifts Septem		. 56	628	680	281		491	305	852	.754	12	2,509	2,308			
8000.07.06 - IBP - Network & To	Source Springer	427	210	2165	(388)	. et	317	171	296	19000	(37)	640	693	. 91		
4000.07.57 - IBP - Dot Year Sum	mary 10x47 Planning Factage	.0		. 0	0.5	- 4	. 0			- 9	.0	334,850	339,374	138		
GB 7 Suitestal		1,000	3.00	3,575	201	Ties	7,458	3,867	2,941	101	177	259,854	159,933	100		
A. COST OF MOREY																
IL BENEAU AND ACRESOTRAT	THE .															
d. UNDSTRUCTED BUDGET			14,760		1151354	17.55	77,750	1 90%	10000	100000	9 10 5		a	1		
s. SURTOTAL			1,28	2,645	(3,317)	1939	7,115	6.786	4,118	12,47%	110	165,738	588,018	11.29		
	MANAGEVERY RISERVE		Alexander	M. Land	AL .											
4.101AL		6,077	1,236	1,642	0.101	1413	7,185	- ACTH	5,410	(2,47)	168	885,728	388,016	11.16		
 RECONCILIATION TO CONTRA 	ACT BUDGET SANSE	_														
a. VARIANCE ADDISTMENT												-				
TITTAL CONTRACT WANNES											.385.726	.588,015	12.15			

APPENDIX B



2.0 FORMAT 3, DD FORM 2734/3, BASELINE

							CT PERFOR		PORT	DOLL	ARS IN Thou	sands		APPROVED No. 0704-0188	
1. Contractor		2. Contract				3. Program	1			4. Report Pe	riod				
a. Name		a. Name				a. Name				a. From (202	1/2/22\				
Hanford Mission Integr		Hanford Mission	Essential Se	rvices Contr		Hanford Mi	ission Essen	tial Services	Contract	a. FIUIII (202	1/2/22)				
b. Location (Address a	nd Zip Code)	b. Number				b. Phase				b. To (2021/	22/24)				
Richland, WA 99352		89303320DEM00	00031			Operations				D. 10 (2021/	J3/21)				
		c. TYPE		d. Share Ra	atio	c. EVMS A	CCEPTANCE								
		CPAF & IDIQ		N/A		No X	Yes								
5. CONTRACT DATA															
a. ORIGINAL NEGOTIAT	TED COST	b. NEGOTIATED	c. CURREN	IT	d. ESTIMAT	ED COST OF	UNATHOR	IZED	e. CONTRA	CONTRACT BUDGET f. TOTAL ALLOCATED BUDGET				g. DIFFERENCE (E	- F)
	CONTRACT		NEGOTIATI	ED COST	UNPRICED	WORK			BASE (C+D)					
		CHANGES	(a+b)												
\$359.	813	\$0	\$359	9.813		\$25	.915		\$38	35.728		\$385,728		s	n
, ,		·	,							-, -					-
h. CONTRACT START D	AIE	i. CONTRACT DE	HINITIZATIO	N DATE	J. PLANNEI	D COMPLETI	ION DATE			NTRACT	I. ESTIMATEI	D COMPLETIC	ON DATE		
2020/0/47		2040/4	2/5			2020/	0/46			TION DATE					
2020/8/17		2019/1	.2/5			2030/8	8/16		203	0/8/16	2030/8/16				
6. PERFORMANCE DAT	A														
							BUD	GETED COST	FOR WOR	K SCHEDULED	(BCWS) (No	n-Cumulativ	e)		
ITEM				Six	Month Fore	cast By Mo	nth			Remair	ing Forecast	By Month &	Fiscal Year		
	20110									1					
	BCWS CUMULATIVE TO	BCWS FOR	APR	MAY	JUN	JUL	AUG	SEP		ВР	OP1	OP2		UNDISTRIBUTED	
		REPORT PERIOD	I .	FY21		FY21			5,000	1	FY25-28	FY28-30			TOTAL BURGET
(1)	DATE (2)	(3)	FY21 (4)	(5)	FY21 (6)	(7)	FY21 (8)	FY21 (9)	FY22 (10)	FY23-25 (11)	(12)	(13)	(14)	BUDGET (15)	TOTAL BUDGET (16)
a. PERFORMANCE	(2)	(3)	(4)	(3)	(6)	(7)	(0)	(2)	(10)	(11)	(12)	(13)	(14)	(13)	(10)
MEASUREMENT															
BASELINE (Beginning															
of Period)															
,															
	2,888	4,345	4,651	5,549	5,981	6,253	5,916	8,382	2,461	0	0	339,209	0	0	385,635
b. BASELINE															
CHANGES AUTHORIZED DURING															
REPORT PERIOD															
KEFOKT FERIOD															
	4.277	(4.245)	_	225	237			26			0	(540)	0	0	02
c. PERFORMANCE	4,377	(4,345)	6	225	23/	63	22	26	0	0	0	(519)	0	0	93
MEASUREMENT															
BASELINE (End of															
Period)															
	7,265	0	4,657	5,774	6,219	6,316	5,937	8,409	2,461	0	0	338,690	0	0	385,728
7. MANAGEMENT									l						
RESERVE															0
8. TOTAL	7.265	0	4.657	5.774	6.219	6.316	5.937	8,409	2.461	0	0	338.690	0	0	385,728
o. 101712	7,203		4,037	3,774	3,213	3,310	3,337	3,403	2,401		U	330,030	U		303,720

1. Contractor	2. Contract		3. Program	4. Report Period		
a. Name	a. Name		a. Name	a. From		
Hanford Mission	Hanford Mi	ssion Essential	Hanford Mission Essential	(2021/01/25)		
Integration Solutions, LLC	Services Con	ntract(HMESC	Services Contract(HMESC	(2021/01/25)		
b. Location (Address and	b. Number-8 93	03320DEM00031	b. Phase - Operations			
Zip Code) PO Box	c. Type	d. Share	c. EVMS Acceptance	b. To (2021/02/21)		
Richland, WA 99352	CPAF,IDIQ	Ratio	NOX YES			
Evaluation						

3.0 FORMAT 5, DD FORM 2734/5, EXPLANATIONS AND PROBLEM ANALYSIS

(\$K)		BCWS	BCWP	1	ACWP	SV\$	SV %	CV \$	CV %	SPI	CPI
Current:	\$	4,377	\$ 2,230	\$	2,643	\$ (2,147)	-49.1%	\$ (413) -18.5%	0.51	0.84
FYTD:	\$	7,265	\$ 4,786	\$	4,618	\$ (2,479)	-34.1%	\$ 168	3.5%	0.66	1.04
Cumulative:	\$	7,265	\$ 4,786	\$	4,618	\$ (2,479)	-34.1%	\$ 168	3.5%	0.66	1.04
		BAC	EAC	'	VAC\$	VAC %	TCPI				
At Completion:	\$	385,728	\$ 388,016	\$	(2,288)	-0.6%	0.99				
Includes CLIN 4 & CLIN 7											

Explanation of Variance /Description of Problem:

Current Month (CM) Cost Variance (CV):

The unfavorable Current Month Cost Variance is primarily driven by:

- (-\$110K) 4001.07.01 Water Systems Project L-895 Fire Protection Infrastructure for PRW is due to an accrual correction from the previous period relating to the construction subcontractor's scope. Additionally, a usage variance for HMIS/NW labor as support was more than planning assumptions for the current period in order to support ongoing fieldwork and prepare for acceptance testing (without the generator).
- (-\$154K) 4001.07.06 Network and Telecom Systems Project L-919 Emergency Radio Upgrades is due to late invoices (\$105k) from subcontractor for work that was performed last year and under MSA contract.

Impacts – N/A.

Corrective Action – A cost transfer is being worked to move the invoice back to the MSA contract.

Current Month (CM) Schedule Variance (SV):

The unfavorable Current Month Schedule Variance is primarily driven by:

(-\$630K) 4001.07.01 Water Systems - Project L-781 181D Vertical Turbine Pumps due to the delay of the A/E's 30% Design approval milestone payment. This milestone was planned to complete near the end of March, but is now forecast to complete the beginning April.

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name	a. Name		a. Name	a. From
Hanford Mission	Hanford Mi	ssion Essential	Hanford Mission Essential	(2021/01/25)
Integration Solutions, LLC	Services Con	ntract(HMESC	Services Contract(HMESC	(2021/01/25)
b. Location (Address and	b. Number-893	303320DEM00031	b. Phase - Operations	
Zip Code) PO Box	c. Type	d. Share	c. EVMS Acceptance	b. To (2021/02/21)
Richland, WA 99352	CPAF,IDIQ	Ratio	NOX YES	
Evaluation				

• (-\$801K) 4001.07.03 Electrical Systems - Project L-789, Priorit T&D Sys Wood PP Test & Replace, having low likelihood planning and unplanned cutovers as well as Titan crews being dispatched to support power outages in Oregon.

Impacts - N/A.

Corrective Action – N/A.

Fiscal Year To Date (FYTD) Cost Variance (CV):

• The Fiscal Year To Date Cost Variance is within reporting variance.

Impacts - N/A.

Corrective Action – N/A.

Fiscal Year To Date (FYTD) Schedule Variance (SV):

The unfavorable Fiscal Year To Date Schedule Variance is primarily driven by:

• (-\$1,476K) 4001.07.03 Electrical Systems - Project L-789, Priorit T&D Sys Wood PP Test & Replace, having low likelihood planning and unplanned cutovers as well as Titan crews being dispatched to support power outages in Oregon.

(-\$348K) 4001.07.06 Network and Telecom System - Project L-937 Gable East Footprint Reduction (Phase 1) continuing to recover from the pause at contract transition. The project team implemented the prior months' work scope, and did not perform the baseline work scheduled in March. Authorization to perform work was received on February 8th, two weeks after the HMIS contract had begun. The project has also experienced delays with RSC design tasks, with the Engineering Change Request (ECR) development taking longer to complete, and is holding up construction activities that were scheduled to start in March.

Impacts - Impacts to Reliability Projects are minimal because most reliability projects are independent stand-alone projects.

Corrective Action – N/A.

Cumulative To Date (CTD) Cost Variance (CV):

• Same as FYTD cost variance explanation.

Impacts - N/A.

Corrective Action – N/A.

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name	a. Name		a. Name	a. From
Hanford Mission	Hanford Mission Essential		Hanford Mission Essential	(2021/01/25)
Integration Solutions, LLC	Services Contract(HMESC		Services Contract(HMESC	
b. Location (Address and	b. Number-8 9303320DEM00031		b. Phase - Operations	
Zip Code) PO Box	c. Type	d. Share	c. EVMS Acceptance	b. To (2021/02/21)
Richland, WA 99352	CPAF,IDIQ	Ratio	NOX YES	
Evaluation				

Cumulative To Date (CTD) Schedule Variance (SV):

• Same as the FYTD schedule variance explanation.

Impacts - Same as FYTD impacts.

Corrective Action – N/A.

Variance at Completion (VAC):

The unfavorable Variance at Completion is primarily driven by:

• (-\$1,253K) 4001.07.03 Electrical Systems - Project L-789, Priorit T&D Sys Wood PP Test & Replace having low likelihood planning and unplanned cutovers as well as Titan crews being dispatched to support power outages in Oregon.

Impacts - N/A.

Corrective Action – N/A.

Negotiated Contract Changes:

The Negotiated Contract Cost for March 2021 is \$359.8M.

Changes in Estimated Cost of Authorized Unpriced Work:

The Authorized Unpriced Work (AUW) for March 2021 is \$25.9M based on CLIN 7 scope transferred to CLIN 4 base on customer direction.

Changes in Estimated Price:

The Estimated Price for February 2021 is \$413.2M. The Estimated Price includes the Most Likely Management Estimate at Completion (MEAC) of \$388.0M and fee totaling \$25.2M. The estimated fee includes assumed ~7% of Fee from CLIN 7 in the amount of \$25.2M. The fee is depended on Task Order (TO) negotiations, and will be updated as necessary when TOs are definitized.

Changes in Undistributed Budget:

The UB for this reporting period is \$0M.

Changes in Management Reserve:

The Management Reserve (MR) for this reporting period is \$0M.

Differences in the Baseline:

This reporting period the Baseline began at \$359.8M.

1. Contractor	2. Contract		3. Program	4. Report Period
a. Name	a. Name		a. Name	a. From
Hanford Mission	Hanford Mission Essential		Hanford Mission Essential	(2021/01/25)
Integration Solutions, LLC	Services Contract(HMESC		Services Contract(HMESC	
b. Location (Address and	b. Number-8 9303320DEM00031		b. Phase - Operations	
Zip Code) PO Box	c. Type	d. Share	c. EVMS Acceptance	b. To (2021/02/21)
Richland, WA 99352	CPAF,IDIQ	Ratio	NOX YES	
Evaluation				

The following BCRs were implemented as part of the HMESC transition:

• BCR-HMS-21-003 – Align Reliability Projects and Other CLIN 4 AUW Scope with FY21 Execution Strategy.

Best/Worst/Most Likely Management Estimate at Completion (MEAC):

The Best Case MEAC assumes the completion of the approved work scope at the current negotiated contract value consistent with the Contract Budget Base \$385.7M. The Most Likely MEAC reflects the EAC including MR \$388.0M. The Worst Case Scenario assumes a 5 percent increase to the Most Likely MEAC case scenario \$407.4M.